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OM protein - protein search, using sw model

Run on: June 18, 2003, 10:28:47 ; Search time 29 Seconds
(Without alignments)
3242.473 Million cell updates/sec

Title: US-09-817-487a-2

Perfect score: 4569
Sequence: 1 MRELVINPIVHILTLVAFSG.....TSIHRLERKCEKRAEQTAVS 869

oring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*
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14: /cgn2_6/ptodata/2/pubppa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4569	100.0	869	10	US-09-817-487a-2
2	4558	99.8	869	9	US-10-016-283-33
3	4292.5	93.9	868	9	US-10-016-283-1
4	899	19.7	937	9	US-09-974-298-129
5	861	18.8	822	10	US-09-966-147-2
6	861	18.8	847	10	US-09-924-859A-5
7	810	17.7	790	10	US-09-966-147-9
8	810	17.7	814	10	US-09-924-859A-3
9	807.5	17.7	850	10	US-09-924-859A-7
10	792.5	17.3	839	10	US-09-966-147-6
11	774	16.9	1070	9	US-09-961-403-3
12	741	16.2	641	9	US-10-242-943-4
13	695.5	15.2	802	9	US-10-011-548-33
14	693.5	15.2	802	10	US-09-758-386-3
15	679	14.9	822	9	US-09-757-415A-2
16	677	14.8	850	10	US-09-985-675-2
17	677	14.8	874	10	US-09-985-675-1
18	677	14.8	880	10	US-09-223-490-10
19	671.5	14.7	764	10	US-09-925-302-714

20	671	14.7	874	9	US-09-158-722-6	Sequence 6, Appl1
21	662	14.5	850	10	US-09-985-675-4	Sequence 4, Appl1
22	662	14.5	876	10	US-09-985-675-3	Sequence 3, Appl1
23	662	14.5	890	10	US-09-223-490-2	Sequence 2, Appl1
24	662	14.5	911	10	US-09-924-859A-1	Sequence 1, Appl1
25	656	14.4	257	9	US-09-823-187-46	Sequence 46, Appl1
26	653.5	14.3	1338	9	US-10-059-585-44	Sequence 44, Appl1
27	651.5	14.3	374	10	US-09-205-658-108	Sequence 108, App
28	651.5	14.3	374	10	US-09-844-353A-108	Sequence 108, App
29	647.5	14.2	1363	9	US-09-375-248-19	Sequence 19, Appl1
30	644.5	14.1	1367	9	US-09-870-759-120	Sequence 120, App
31	644	14.1	297	9	US-09-939-833-8	Sequence 8, Appl1
32	644	14.1	297	10	US-09-939-833-8	Sequence 8, Appl1
33	644	14.1	297	10	US-09-939-833-8	Sequence 8, Appl1
34	642.5	14.1	854	9	US-09-158-722-20	Sequence 20, Appl1
35	641.5	14.0	370	10	US-09-205-658-107	Sequence 107, App
36	641.5	14.0	370	10	US-09-844-353A-107	Sequence 107, App
37	641.5	14.0	891	10	US-09-862-027-25	Sequence 25, Appl1
38	633.5	13.9	1298	10	US-09-982-610-33	Sequence 33, Appl1
39	633.5	13.9	1363	9	US-09-375-248-19	Sequence 2, Appl1
40	630	13.8	1368	9	US-10-105-901-34	Sequence 34, Appl1
41	629.5	13.8	885	10	US-09-919-497-52	Sequence 52, Appl1
42	628.5	13.8	888	9	US-10-281-478-5	Sequence 5, Appl1
43	626	13.7	894	10	US-09-223-490-34	Sequence 34, Appl1
44	624.5	13.7	999	9	US-10-174-590-434	Sequence 434, App
45	624.5	13.7	999	9	US-10-176-758-434	Sequence 434, App

ALIGNMENTS

RESULT 1
US-09-817-487a-2
Sequence 2, Application US/09817487A
Patent No. US20020150676A1
GENERAL INFORMATION:
APPLICANT: No. US20020150676A1artis AG
TITLE OF INVENTION: Selectable Marker Genes
FILE REFERENCE: 4-31193A
CURRENT APPLICATION NUMBER: US/09/817,487A
CURRENT FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 869
TYPE: PRT
ORGANISM: homo sapiens
US-09-817-487a-2

Query Match 100.0%; Score 4569; DB:10; Length 869;
Best Local Similarity 100.0%; Pred. No. 1.8e+262;
Matches 869; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRELVINPIVHILTLVAFSGTEKLPKAPVTTTLETVDAIVEVATFMCAVESYPOPEIS 60
DB 1 MRELVINPIVHILTLVAFSGTEKLPKAPVTTTLETVDAIVEVATFMCAVESYPOPEIS 60
QY 61 WTRNKILIKLFDRTYSIRENGQLTLISYSDSDGTYCCATNGGAVGSCALQVKKM 120
DB 61 WTRNKILIKLFDRTYSIRENGQLTLISYSDSDGTYCCATNGGAVGSCALQVKKM 120
QY 121 PKTRPPINVKITIEGLKAVLPCTTMGNPKRSVWIKGSDPLRENSRIAVLESGSLRIHNV 180
DB 121 PKTRPPINVKITIEGLKAVLPCTTMGNPKRSVWIKGSDPLRENSRIAVLESGSLRIHNV 180
QY 181 QKEDAOQYRCVANKSISGTATSKVKKLEFEYFAILAPESHNVTFSSFTYLHCTANGTIV 240
DB 181 QKEDAOQYRCVANKSISGTATSKVKKLEFEYFAILAPESHNVTFSSFTYLHCTANGTIV 240
QY 241 PTTTWIENGNAVSSGSIQESVSKDRVIDSRQLQITTPKGLYTCTATKKGKSTAKAAT 300
DB 241 PTTTWIENGNAVSSGSIQESVSKDRVIDSRQLQITTPKGLYTCTATKKGKSTAKAAT 300

QY 301 ISTAEMSKPOKDNKGCAOYRGEVCNANVLAKDALVFINTSYADPEAEQELLVHTANNEK 360
DB 301 ISTAEMSKPOKDNKGCAOYRGEVCNANVLAKDALVFINTSYADPEAEQELLVHTANNEK 360
QY 361 VSPVPCRAAEALLCNHIPOECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
DB 361 VSPVPCRAAEALLCNHIPOECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
QY 421 LYSEMHLLSVPCSKLPSMHWDPACARLPHLDYNNENKTPTPMTSSKSPVDIPLPS 480
DB 421 LYSEMHLLSVPCSKLPSMHWDPACARLPHLDYNNENKTPTPMTSSKSPVDIPLPS 480
QY 481 SSSSFVSPTYSMTVITISMSFAIFVLLTITLYCCRRKQKNNKRSAAVTLTTL 540
DB 481 SSSSFVSPTYSMTVITISMSFAIFVLLTITLYCCRRKQKNNKRSAAVTLTTL 540
QY 541 SELLDRLHNPMTORPMLLNPKLSLEYPRNNIEYVDIGEGAFGRVFOARAGILPY 600
DB 541 SELLDRLHNPMTORPMLLNPKLSLEYPRNNIEYVDIGEGAFGRVFOARAGILPY 600
QY 601 EPTFMVAVKMLKEASADMDQADPQREALAAEPDNPITVLLGCAYGKPMCLLEFEMAY 660
DB 601 EPTFMVAVKMLKEASADMDQADPQREALAAEPDNPITVLLGCAYGKPMCLLEFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAQVSSPGPPPLSCAEQOLCIANOVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAQVSSPGPPPLSCAEQOLCIANOVAAGMAYLSERK 720
QY 721 FVHRDLATRNCLVGENNVVKIADGSLRNITYSADYYANENDAIPIKMPPESTIFYNRYT 780
DB 721 FVHRDLATRNCLVGENNVVKIADGSLRNITYSADYYANENDAIPIKMPPESTIFYNRYT 780
QY 781 TESDVMAVGYVLMETISYGLOPYYGMAHEEYIYVRGNILSCPENCPVELYNLMRLCWS 840
DB 781 TESDVMAVGYVLMETISYGLOPYYGMAHEEYIYVRGNILSCPENCPVELYNLMRLCWS 840
QY 841 KLPADRPSTSIHRIERMCEERAGTVSV 869
DB 841 KLPADRPSTSIHRIERMCEERAGTVSV 869

RESULT 2
US-10-016-283-33
; Sequence 33, Application US/10016283
; Patent No. US20020164702A1
; GENERAL INFORMATION:
; APPLICANT: Valenzuela et al., David M.
; TITLE OF INVENTION: NOVEL TYROSTINE KINASE RECEPTORS AND LIGANDS
; FILE REFERENCE: REG195-B-PCT-US
; CURRENT APPLICATION NUMBER: US/10/016, 283
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US/09/077, 955A
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: PCT/US96/20696
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 33
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-016-283-33

Query March 99.8%; Score 4558; DB 9; Length 869;
Best Local Similarity 99.8%; Pred. No. 8e-262;
Matches 867; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRELVINIPLVHILTLVAFSGTEKLPKAPVITTPLETVDALVEEVAIFMCAYESPPEIS 60
DB 1 MRELVINIPLVHILTLVAFSGTEKLPKAPVITTPLETVDALVEEVAIFMCAYESPPEIS 60
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DB 61 WTRNKILIKLFDTRYISRENGQLTILSVEDSDGIYCCTANNVGAVESCGALQYKMK 120

DB 61 WTRNKILIKLFDTRYISRENGQLTILSVEDSDGIYCCTANNVGAVESCGALQYKMK 120
QY 121 PKTTRPINNKIIEGLKAVLPCTTMGNPKRSYMWIKGDSLRENSRAVLESGLRHNV 180
DB 121 PKTTRPINNKIIEGLKAVLPCTTMGNPKRSYMWIKGDSLRENSRAVLESGLRHNV 180
QY 181 OKEDAGQRCVANKSLGTATSKVYKLEFEYFARILRAPESHNTFGSFVTLHCTATGIPV 240
DB 181 OKEDAGQRCVANKSLGTATSKVYKLEFEYFARILRAPESHNTFGSFVTLHCTATGIPV 240
QY 241 PTTIWIENGNAVSSGSIQESVYKDRVIDSRQLPTTKRGYLTCTATNKGKSTAKRAAT 300
DB 241 PTTIWIENGNAVSSGSIQESVYKDRVIDSRQLPTTKRGYLTCTATNKGKSTAKRAAT 300
QY 301 ISTAEMSKPOKDNKGCAOYRGEVCNANVLAKDALVFINTSYADPEAEQELLVHTANNEK 360
DB 301 ISTAEMSKPOKDNKGCAOYRGEVCNANVLAKDALVFINTSYADPEAEQELLVHTANNEK 360
QY 361 VSPVPCRAAEALLCNHIPOECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
DB 361 VSPVPCRAAEALLCNHIPOECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
QY 421 LYSEMHLLSVPCSKLPSMHWDPACARLPHLDYNNENKTPTPMTSSKSPVDIPLPS 480
DB 421 LYSEMHLLSVPCSKLPSMHWDPACARLPHLDYNNENKTPTPMTSSKSPVDIPLPS 480
QY 481 SSSSFVSPTYSMTVITISMSFAIFVLLTITLYCCRRKQKNNKRSAAVTLTTL 540
DB 481 SSSSFVSPTYSMTVITISMSFAIFVLLTITLYCCRRKQKNNKRSAAVTLTTL 540
QY 541 SELLDRLHNPMTORPMLLNPKLSLEYPRNNIEYVDIGEGAFGRVFOARAGILPY 600
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QY 601 EPTFMVAVKMLKEASADMDQADPQREALAAEPDNPITVLLGCAYGKPMCLLEFEMAY 660
DB 601 EPTFMVAVKMLKEASADMDQADPQREALAAEPDNPITVLLGCAYGKPMCLLEFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAQVSSPGPPPLSCAEQOLCIANOVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAQVSSPGPPPLSCAEQOLCIANOVAAGMAYLSERK 720
QY 721 FVHRDLATRNCLVGENNVVKIADGSLRNITYSADYYANENDAIPIKMPPESTIFYNRYT 780
DB 721 FVHRDLATRNCLVGENNVVKIADGSLRNITYSADYYANENDAIPIKMPPESTIFYNRYT 780
QY 781 TESDVMAVGYVLMETISYGLOPYYGMAHEEYIYVRGNILSCPENCPVELYNLMRLCWS 840
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DB 841 KLPADRPSTSIHRIERMCEERAGTVSV 869

RESULT 3
US-10-016-283-1
; Sequence 1, Application US/10016283
; Patent No. US20020164702A1
; GENERAL INFORMATION:
; APPLICANT: Valenzuela et al., David M.
; TITLE OF INVENTION: NOVEL TYROSTINE KINASE RECEPTORS AND LIGANDS
; FILE REFERENCE: REG195-B-PCT-US
; CURRENT APPLICATION NUMBER: US/10/016, 283
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: US/09/077, 955A
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: PCT/US96/20696
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 868

TYPE: PRT
ORGANISM: Rattus sp.
us-10-016-283-1

Query Match 93.9%; Score 4292.5; DB 9; Length 868;
Best Local Similarity 93.2%; Pred. No. 4e-246;
Matches 810; Conservative 31; Mismatches 27; Indels 1; Gaps 1;

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DB 1 MRELVNPLVHILTLVAFSGTEKLPKAPVITTPLETDAVEATMCAVESPOEIS 60
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QY 121 PKTRPPINKIIIEGLKAVLPCTTMGNPKPSVSIKSDSPRESRJAVLESSGLRIHNV 180
DB 121 PKTRPPINKIIIEGLKAVLPCTTMGNPKPSVSIKSDSPRESRJAVLESSGLRIHNV 180
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DB 181 OKEDAGQRCVANKSLGTAVSKYKLEFEYFARILRAPESHNTFGSEVTLHCTATGIPV 240
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DB 241 PTTWINGNNAVSSGSIQESVKDRIYDRLQLEFTKPGLYTCTATNKGKFTAKAAT 300
QY 301 ISTAEMSKPKDNKGYCAOYRGECVCAVLAADALVANTYADPEEAOELLVHTANMELK 360
DB 301 ISTAEMSKPKDNKGYCAOYRGECVCAVLAADALVANTYADPEEAOELLVHTANMELK 360
QY 361 VSTAEWSKQESGEGYCAOYRGECVCAVLAADALVANTYADPEEAOELLVHTANMELK 360
DB 361 VSTAEWSKQESGEGYCAOYRGECVCAVLAADALVANTYADPEEAOELLVHTANMELK 360
QY 420 VSPVPCRAAEALLCNHFQECSPGVYPTPICTREYCLAVKELCAKEMLVMEKTHRG 420
DB 420 VSPVPCRAAEALLCNHFQECSPGVYPTPICTREYCLAVKELCAKEMLVMEKTHRG 420
QY 421 LYSSEMLLSVPCSKRPSMHMDPTACARPHLDYKENTKTPPMVTSKSPVDIEMLP 480
DB 421 LYSSEMLLSVPCSKRPSMHMDPTACARPHLDYKENTKTPPMVTSKSPVDIEMLP 480
QY 481 SSSSEFSVSPYMTVITISMSFAIFVLLITTLVCCRRKQKNNKRESAAVTLTLP 540
DB 481 SSSSEFSVSPYMTVITISMSFAIFVLLITTLVCCRRKQKNNKRESAAVTLTLP 540
QY 541 SELLDRLHPNMYQMPPLLNKPLLSLEYPRNNIEYRDIGEGAFGRVQARAPGLLP 600
DB 541 SELLDRLHPNMYQMPPLLNKPLLSLEYPRNNIEYRDIGEGAFGRVQARAPGLLP 600
QY 601 EPTTVAVVKMLKEEASADQADQOREAALMAEFDPNPIYKLVCAVKGKEMCLFEYMA 660
DB 601 EPTTVAVVKMLKEEASADQADQOREAALMAEFDPNPIYKLVCAVKGKEMCLFEYMA 660
QY 661 GDLNEFLRSKPSHTVCSLSHSDLSMRQVSSPPPLSCAEOCLAROVAAGMAYLSERK 720
DB 661 GDLNEFLRSKPSHTVCSLSHSDLSMRQVSSPPPLSCAEOCLAROVAAGMAYLSERK 720
QY 721 FVHRDLATRNCLVGENNAVKIADGSLRNITYSADYKANDDAIPTRMPPEISIFNRYT 780
DB 721 FVHRDLATRNCLVGENNAVKIADGSLRNITYSADYKANDDAIPTRMPPEISIFNRYT 780
QY 781 TESDVAAVGVLMETISYGLQYRYGMAHEVITYYVDGNTLSPENCPEVLYLMLKWS 840
DB 781 TESDVAAVGVLMETISYGLQYRYGMAHEVITYYVDGNTLSPENCPEVLYLMLKWS 840
QY 841 KLPADRPSPFTSIRHILERMCEAECTVSV 869
DB 841 KLPADRPSPFTSIRHILERMCEAECTVSV 869
QY 868 KLPADRPSPFTSIRHILERMCEAECTVSV 868
DB 868 KLPADRPSPFTSIRHILERMCEAECTVSV 868

RESULT 4
US-09-974-298-129
Sequence 129, Application US/09974298
Patent No. US20020156263A1

GENERAL INFORMATION:
APPLICANT: Chen, Huel-Me1
TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER
FILE REFERENCE: PA-0037 P
CURRENT APPLICATION NUMBER: US/09/974,298
CURRENT FILING DATE: 2001-10-04
PRIOR APPLICATION NUMBER: 60/238,331
PRIOR FILING DATE: 2000-05-10
NUMBER OF SEQ. ID NOS: 194
SOFTWARE: PERL Program
SEQ ID NO 129
LENGTH: 937
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc-feature
OTHER INFORMATION: Incyte ID No. US20020156263A1 1331526CD1
US-09-974-298-129

Query Match 19.7%; Score 899; DB 9; Length 937;
Best Local Similarity 31.5%; Pred. No. 2.4e-45;
Matches 229; Conservative 102; Mismatches 254; Indels 142; Gaps 20;

QY 221 HNYT--FGSEVTLHCTATGIPVPTTWIENGNAVSSGSIQESVKDRIYDRLQ--LEFT 275
DB 65 NNITSLGQTAELHCKVSGNPPPIIRFKNDAPVQPRRLSTRSTYGSRLRIKRLDIT 124
QY 276 KPGLYTCTATNKGKFTAKAATATSIAMWSKP---QKDNKGYCAOYRGECVCAVLA 331
DB 125 DTGFFQCVANNKGEVSSVGVLEFKGPPPTASFGYDEVEEDGFCQPYRGIAAC-ARFIG 183
QY 332 DALVFLNTSYADE-EOELLVHTANMELVSPVPCRAAEALLCNHFQEC-SPGVPT 389
DB 184 NRYVMSLSHMOEIEIQTAAFTMTGTSLSHSDKQFAPISLCHAFYCOETSSVPK 243
QY 390 PIPICREYCLAVKELCAKEMLVMEKTHRGVLRSE--NHLVSPCKSLPSMHMDPTA 446
DB 244 PDLRCRDECEILENVLCQTEYI-----FARNMIMLRLKLPNCEDLPQESPDEAA 294
QY 447 -CAR--LPHLDYKENTKTP-----PMTSSKSPV----- 473
DB 295 NCTRIGTPMADPINKNKKCYNSTGVYDRTGVSVTKSGROQCPNNSQVPHHTFTALRPE 354
QY 474 -----DIPNLSSSSSSFVSPTYSMTVITISIM 501
DB 355 LINGHSYCRNPNQKKEAPMCFITDENFKSDLCIPACDSKDSKEKN-----KHEILYIV 409
QY 502 SSPAIFVLLITTLVCCRRKQKNNKRESAAVTLTLPSELDDLRLHPNMYQMP--- 558
DB 410 PSVAIPDLAIALFEFTCVGR--NNQKSSGAPV-----QRPKHV 446
QY 559 -----LLLN---PILLSLEYPRNNIEYRDIGEGAFGRVQAR--AGILPEPTVAV 606
DB 447 RGVNEMSMINAVKPKSKAKELPLSAVRNMEELGECAGFYGHLYLPGM---DHAOLV 503
QY 607 AVMLKEASADQADQOREAALMAEFDPNPIYKLVCAVKGKEMCLFEYMAVYGLNEF 666
DB 504 AIKTLDDYNNPQOMMEFOQASLMAELHNPVITCIGATYQDEPVCMLTEYIYQGLIHEF 563
QY 667 LKMSPHTVCSLSHSDLSMRQVSSPPPLSCAEOCLAROVAAGMAYLSERKPVHRDL 726
DB 564 LKMRSP-----HSDVGCSSDEDTGVKSLDGHDLHIAIQTAAEMEYLSHFVHKDL 616
QY 727 ATRNCLVGENMYKINDFGLSRITYSADYKANDDAIPTRMPPEISIFNRYTSSDW 786
DB 617 AARNIILGEOHAKYISDLGSLREITYSADYKANDDAIPTRMPPEISIFNRYTSSDW 786
QY 787 AVGVVLMETISYGLQYRYGMAHEVITYYVDGNTLSPENCPEVLYLMLKWSKLPADR 846
DB 677 SFGVVLMEIFESGLQYRYGFSNQEVLEMYRKRLQLPSCSDCPRPMSTMTTECMNEILPSR 736
QY 847 PSFTSIH 853
DB 847 PSFTSIH 853


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QY 101 ANNG-----VGGAVESGALQVKKPKITRPPINVKIIEGLKAVLPCTTGNPKPSVSMIK 156
D 204 ESSKNITLANQIPNCL-----PSANLAPNITVEEGKSTITLSCVAGDPPVPMYMDV 257
QY 157 GD---SPLRENSRIAVLESSRLRIHNOVEDAG-QYRCVAKNSIGTAYSKV-VLEFEVF 211
D 258 GNLVSKHNETSH-----TQSLRLTINISDDSKQISCAVENLVGEDQSDNLLVHAPT 313
QY 212 ARLAPESHN---VTFGSFVTLHCTATGIPVPIITIEGNNAVSSGSIQESVADRYIDS 268
D 314 ITLESTSDHMCIFP-----TVKGNPKPALQFVYNG-ALINSEKTYICTKIHVTNH 364
QY 269 R-----LQFTTR-----GLYCIATNKHG--EKFSTAKAATISIAEMSKP-----K 311
D 365 TEYHGGCL--DNPTHHNNDYLLIAKNEYGKDEKQISAFPMGPGIDGANDPYPIY 422
QY 312 DNKGCAQYGEVCNAVLAADALVLTNTSYADEBAQELLVHAMNELKYVSPYCPRAE 371
D 423 EDYGTAMNDIGDTNR-----SNEIPSTDYDKTGRHLSVAVVAVIASVVG----- 469
QY 372 ALLCNHFOECSPGVPTPIPIREVCGLAVKELEFCAKEMLVMEKTHRGILYSEMLLSV 431
D 470 -----LQFTTR-----FCL-----LVM-----LFLKL 481
QY 432 PKCSKL---PS--MHMDPTACARLPHLDYKNENLKTFFPMTSSKPSVDIPNLPSSSSS 485
D 482 ARHSKFGMKGPASVISNDDSDASPLHHISNGS-----NTPSSSEG 522
QY 486 FVSPTYSMTVIISMSFAIFVLLITTLTYCCRRKRNKKRESAAVLTTLPSSELL 545
D 523 -----PDVITIGMTKIP----- 534
QY 546 DRLPNPMYORAP-LILNPKLSLEYPRNIEYVDIGEGAFGRVFOARAPGLPYEPFT 604
D 535 --VIEHPQYFGIINSQKLPDTEFOHKKRNIIVLKREIGBAFGKVFIAEETYNLCPEODKI 592
QY 605 MAAVKMLKEBASADMOADFOREALAAEFDPNPIVLLGVCAVAGKPMCLLEFYMAVDLN 664
D 593 LVAVKTLK-DASDNARKDFHREAEELLTNQHEHIVFYGVCVGDPLIMVEFMKIGDNL 651
QY 665 EFLRMSPHYVCSLSHSDLSMRAOVSSPPRP--LSCAEQDLARQVAGMAYLSERKEV 722
D 652 KFLRANGPDVA-----LMAEGPPELTQSOMLHTAQOIAAGMVLASOHFV 698
QY 723 HRDLATRNCLVGENMAYKIADEGLSRNIYSADYYKANENDAIPIRMMPRESIFYNRYTTE 782
D 699 HRDLATRNCLVGENMLVKIGDFGMSRDYSTDYRRGHTMLPIRMMPRESIMYRKFTTE 758
QY 783 SDVMAVGVLMELFISGLQPYIGMAHEVLYYVRDGNILSCPENCPVELYNMLRCMSKL 842
D 759 SDVMSLGVLMELFITYGQBPWYQLSNNEVEICTQGRVLRPTCPOEVEYELMLGCMORE 818
QY 843 PADRPSTSHRILEMCE 861
D 819 PHMKRNKIGIHTLONLAK 837

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RESULT 7
 US-09-966-147-9
 Sequence 9, Application US/09966147
 Patent No. US20020146416A1
 GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.
 Urfer, Roman
 Shelton, David L.
 TITLE OF INVENTION: HUMAN TRK RECEPTORS AND NEUROTROPHIC FACTOR INHIBITORS
 NUMBER OF SEQUENCES: 41
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Knodbe, Martens, Olsson & Bear, LLP
 STREET: 620 Newport Center Drive, 16th Floor
 CITY: Newport Beach
 STATE: California

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COUNTRY: USA
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/966.147
FILING DATE: 27-Sep-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/446172
FILING DATE: 19-MAY-1995
APPLICATION NUMBER: 08/286846
FILING DATE: 05-AUG-1994
APPLICATION NUMBER: 08/215139
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger
REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: GENENT.33CPC4C
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 954-4114
TELEFAX: (415) 954-4114
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 790 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-966-147-9

Query Match 17.7%; Score 810; DB 10; Length 790;
Best Local Similarity 27.4%; Pred. No. 3,6e-40;
Matches 255; Conservative 116; Mismatches 256; Indels 304; Gaps 30;

QY 1 MRELVINPIVHILTV-----AFSGTEKLPAPVITPLEVNDALVEVAIFMCA 50
D 84 LRLRLGELGELRNLTIVKSGIRFAPADLPHFTPLRLNLSFNALSS----- 129
QY 51 VESYPOPEISWTRNKILIKLFDTRYISIRENGQLTLTVSDSDGIGCTA-----N 102
D 130 -----LSW-----KTVQGLSLQELVLSGNPLHSCALMLNLRWEE 164
QY 103 NGCVGAVE-----SCGALQVAKKRTITRPPINVKIIEGLKAVLPCTTM 145
D 165 EGLGVPEQKLOCHGGGPLAHMPNASCVPPLKVQVP-----NASVDVDDVLLRCQVE 218
QY 146 GNPKPVSMTIKGDSPLRENSRIA-VLESG-----SLRIHNOKE-DAGVRCVAKNSIGT 198
D 219 GRLEBQAGH-----LTELQSAITYVKSGLBSGLTLNANVSDLNKKNILTCMAENDVGR 273
QY 199 AVSKVVKLEFEVAFARILRAPESHNTFGSFVTLH-----C---TATGIPVITTWIE 247
D 274 A-----EVSQV-----NVSFPAVSQHTAVEMHHMCIPESVVGQAPRLRMLE 317
QY 248 NGNAVSSGS-----IQESVQDRYIDSRQLPFTTR-----GLYCIATNKHGKSTAK 296
D 318 NGSVLNETSFITFELEPANETVRHGCURL--NQPTHVNNNGYTLTLLANPFQO----- 369
QY 297 AATISIAEMSKPQKDNKGCAQYRGEVCNAVLAADALVLTNTSYADEBAQELLVHTAM 356
D 370 ASASIMAAFMNDNFEN-----PEDPIRDTNSTSDPPEKED----- 406
QY 357 NELKVYSPVCPRAEALLCNHIFQECSPGVVPTPIPIREVCGLAVKELEFCANEMLVMEK 416
D 407 -----ETPEGVSAVGLAV--FAC----- 423
QY 417 TRHGTRSEMHLLSVKSKLPSMHMDPTACARLPHLDVKNKELKTFPMTSSKPSVDIP 476
D 424 -----LFLSTL-LIVLKKGR-----RNKRTGI-----NRPAVLAP 452

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QY 477 NLPSSSSSF-----SVSPYSMYIISIMSSFAIVLLTTTLTYCCRRRQMNKKRE 530
DB 453 EDGLAMSLFPMILGSSLSPTG----- 475
QY 531 SAAVTLTLPSELLDRHPNPMYQRMPLLPKILSLEYPRNNIEYVDIGEGAGRYE 590
DB 476 -----KSGSLOGHIENPOYPSDACVHHK-----RDIYLMKELEBGAAGRYE 519
QY 591 QARAPGLPEPFTYAVAKMLEEASADQADFOREALMAEFNDNPIYKLGVCAGRP 650
DB 520 LAECNHLPEODKMLVAVALK-EASESARODFOREALMLTMOHOHIYRFGVCTEGRP 578
QY 651 MCLLEFYMAVGDLENELEMSPTVCSLSHDSLSMAQVSSPGPPLSCAEOICIAROYA 710
DB 579 LLMVFEYMRHGDNRLRSHGP-----DAKLAGEEDVAPGPIGLGOLLAVASOYA 629
QY 711 AGMAVSEKFEYHRDLATNCLVGENMVKIADFGLSRNIYSADYKANENDAIPIRMP 770
DB 630 AGAVYLAGLHFVARDLATNCLVGGLYVKGDFGSRDIYSTDYRVGGRMLPIRMP 689
QY 771 PESIFNRYTTESDVAAGVYVMEIFSYGLOPYGNAHEVYIYVDGNILSCPENCPYE 830
DB 690 PESILYRKTTESDVAAGVYVMEIFSYGLOPYGNAHEVYIYVDGNILSCPENCPYE 749
QY 831 LYMLRLCWSKLPADRPSTSIHRILERCE 861
DB 750 VYAIMRCWOREPOQRHSIKDVHARLQALAQ 780

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RESULT 8
US-09-924-859A-3
; Sequence 3, Application US/09924859A
; Patent No. US20020137113A1
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.
; APPLICANT: Mark, Melanie R.
; APPLICANT: Sadick, Michael D.
; APPLICANT: Shelton, David L.
; APPLICANT: Wong, Wei Lee Tan
; TITLE OF INVENTION: KINASE RECEPTOR ACTIVATION ASSAY
; FILE REFERENCE: P0854CIP2C1
; CURRENT APPLICATION NUMBER: US/09/924, 859A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US/09/417, 381
; PRIOR FILING DATE: 1999-10-13
; NUMBER OF SEQ ID NOS: 11
; SEQ ID NO 3
; LENGTH: 814
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-924-859A-3

```

```

Query Match 17.7%; Score 810; DB 10; Length 814;
Best Local Similarity 27.4%; Pred. No. 3, 8e-40;
Matches 255; Conservative 116; Mismatches 256; Indels 304; Gaps 30;

QY 1 MRELVNIPLVHILTY-----AFSGTEKLPKAPVITPTEYDALVEEVAEFMCA 50
DB 108 LRLRLGELRLNLTIVYSGLRFAVADPAHFPTPLRLNLSFNLES----- 153
QY 51 VESTYPOPEISWTRNKILIKLFDTRYSIRENGQLTILISVSDDGITCYCTA-----N 102
DB 154 -----LSW-----KTVGGISLOELVLSGNPLHSCALRMLOWEE 188
QY 103 NGVGAWE-----SCGALOVKMKPRTPRPINVKIIEGILKAVLPCTM 145
DB 189 EGIAGVPEQKLOCHGCGPLAHMNRASGVPTLKVQV-----NASVDVDDVLKROVE 242
QY 146 GNEKPSYWKIGDSPLENSRIA-VLESG-----SLRHHVQRE-DAGYRCVAKNSLGT 198
DB 243 GRGLEQAGWI-----LTELBSATVYKSGGLPSIGLTLAVTSDLNKRLTCAWENDVGR 297
QY 199 AYSKVYKLEFEVARIIRAPESHNVTGSEVTLH-----C-----TATGTPPTIWI 247

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DB 298 A-----EVSVOY-----NVSFASVGLHNAVEMHNCIFPSVDGQAPRLRMLE 341
QY 248 NGNAVSGS-----IQESKRVIDSRLQLEITRP-----GLYCIATNKGGEFSTAK 296
DB 342 NGSVLENETSFITELEPANETVHGCURL--NPTHVNNONYLLLANPFGO----- 393
QY 297 AATISIAEMSKPQDNKGYCAQYGEVCNAVLAEDALFELNTSYADPEAOELLVHTAM 356
DB 394 ASASTIAAEMDNPEFN-----PEDPIPDITSTIGDPEKKD----- 430
QY 357 NELKVYSPVCRPAEALCNHIFORCSPEGVPTPIPICREYGLAVKEFCANEMLWEEK 416
DB 431 -----ETPGVSAVGLAV--FAC----- 447
QY 417 THRGLYSEMHLLSVPKCKSLPSMHWDPACARLPHLDYKNKNLTFPPMTSSKPSYDIP 476
DB 448 -----LELSTL-LLVNLKCR-----RNKRGF-----NRPAVLAP 476
QY 477 NLPSSSSSF-----SVSPYSMYIISIMSSFAIVLLTTTLTYCCRRRQMNKKRE 530
DB 477 EDGLAMSLFPMILGSSLSPTG----- 499
QY 531 SAAVTLTLPSELLDRHPNPMYQRMPLLPKILSLEYPRNNIEYVDIGEGAGRYE 590
DB 500 -----KSGSLOGHIENPOYPSDACVHHK-----RDIYLMKELEBGAAGRYE 543
QY 591 QARAPGLPEPFTYAVAKMLEEASADQADFOREALMAEFNDNPIYKLGVCAGRP 650
DB 544 LAECNHLPEODKMLVAVALK-EASESARODFOREALMLTMOHOHIYRFGVCTEGRP 602
QY 651 MCLLEFYMAVGDLENELEMSPTVCSLSHDSLSMAQVSSPGPPLSCAEOICIAROYA 710
DB 603 LLMVFEYMRHGDNRLRSHGP-----DAKLAGEEDVAPGPIGLGOLLAVASOYA 653
QY 711 AGMAVSEKFEYHRDLATNCLVGENMVKIADFGLSRNIYSADYKANENDAIPIRMP 770
DB 654 AGAVYLAGLHFVARDLATNCLVGGLYVKGDFGSRDIYSTDYRVGGRMLPIRMP 713
QY 771 PESIFNRYTTESDVAAGVYVMEIFSYGLOPYGNAHEVYIYVDGNILSCPENCPYE 830
DB 714 PESILYRKTTESDVAAGVYVMEIFSYGLOPYGNAHEVYIYVDGNILSCPENCPYE 773
QY 831 LYMLRLCWSKLPADRPSTSIHRILERCE 861
DB 774 VYAIMRCWOREPOQRHSIKDVHARLQALAQ 804

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RESULT 9
US-09-924-859A-7
; Sequence 7, Application US/09924859A
; Patent No. US20020137113A1
; GENERAL INFORMATION:
; APPLICANT: Godowski, Paul J.
; APPLICANT: Mark, Melanie R.
; APPLICANT: Sadick, Michael D.
; APPLICANT: Shelton, David L.
; APPLICANT: Wong, Wei Lee Tan
; TITLE OF INVENTION: KINASE RECEPTOR ACTIVATION ASSAY
; FILE REFERENCE: P0854CIP2C1
; CURRENT APPLICATION NUMBER: US/09/924, 859A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US/09/417, 381
; PRIOR FILING DATE: 1999-10-13
; NUMBER OF SEQ ID NOS: 11
; SEQ ID NO 7
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-924-859A-7
Query Match 17.7%; Score 807.5; DB 10; Length 850;
Best Local Similarity 26.1%; Pred. No. 5, 6e-40;

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Matches 252; Conservative 125; Mismatches 246; Indels 343; Gaps 36;

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QY 6 NIDLVH-----LTLVAFSGTEKL-----PKAPVITTLPELVDALEE 43
Db 104 NITSIHENRSLHTLNAVDMELTYGLQKLTINKSGIRSIOPRAFAKNPHLRVINLSSNR 163
QY 44 VATFMCVAVESYPOPEISWTNRKLIKLFDRYSIRENGQLTLTISVED----- 91
Db 164 LTT-----LSM-----QLFOT-LSLRE-----LQLQNFNCSCDIRMM 196
QY 92 -----SDDGITCCCTAANNVGGA-----VESCGLAQVKKPKITPPINVKI 132
Db 197 QLMQOGEAKLNSONLNCINAD-----GSOQLPFRMNSQCDL-----PEISVSHVLTIV 246
QY 133 IEGKAVLPCTTGNPKPSYSWI-----KGPSPLRENSRIAVLESGSLRHNVOKEDEG-Q 187
Db 247 REGDNVAVITCNGSGSPDPVDWITGLQISINTHOTNLNMTNVAHINLTLVNTSDENGFT 306
QY 188 YRCVAKNSLG-----TAY--SKYVKLEFEVFAIRILRAPE--SHNVTGSGFVTLHCT 234
Db 307 LTCIAENVVGMNSNAVALTYYPFRVYSLE-----EPBLRLEHCIEF-----V 349
QY 235 ATGIPVPTIWIENGNAVSSGST--QESVADRVIDSRLQLFITRP-----GLYTCTATNK 287
Db 350 VRGNPPTLHMLHNGQPLRESKLIHVEYIOGEISGCLLF--NKPTHYNGNNTLTIKKNP 408
QY 288 HGEKSTAKAAATISIAEMSKPKDKNKYCAQYRGECVNCNVLAKDALVPLNTSYADEEA 347
Db 409 LG-----TANOTIN-----GH-----FLKEPP--PEST 429
QY 348 QELLVHTANMELKVVSPVCPRAEALLCNHIFQECSPGVPTPIPICREYCLAVKELCA 407
Db 430 DNF-----LFEVSP----- 440
QY 408 KENLVMEKTHRGIRSEMHLLSVPKSKLIPSMHMDPTACARLPHLDYKNENKLTFRPMT 467
Db 441 ----- 445
QY 468 -SSKPSVDINPLSSSSSFSPVYSMTVYISMSFAJFVLLTITLYCCRRRKQKN 526
Db 446 VTHKPREED-----TFGVSTAVGLAARACVLVLYLFPMINKYGRSRFGM 489
QY 527 K-----KRESAAVTL-----TTLRSELLDLRLHNP--YORMLPLNPKLSLEY 570
Db 490 KGVAVVIGSEDSASPLHINHGITPSSL--DAGPDVYIGTRIPVLENQYFNGH 546
QY 571 -----PRNTEYVRDICEGAFGRVFOARAGLPIPEFTVAVAKMKEASAD 618
Db 547 NCHKPPTYOHIRKRDIVLRKELEGAFKVFIAECYNLSPTKDKMLVAVALKADPTLA 605
QY 619 MQADFOREALMAEFDPNIVKLIGYCAVGKPMCLLFEYVAGDLNFEFLMSPPHTVCSL 678
Db 606 ARKDFQREALLNLNQHNEHIVKFGYCGDDPLIMVEYMKHGDINKFLAHGPD----- 660
QY 679 SHSDLSRAQVSSGPP-----PLSCAEQULCIARQVAAAGVYLSERKFVRDLATNCLV 733
Db 661 -----AMILVDGQROAKGELIGLSOMLHIASQIASGMVYLASQHFVARDLATNCLV 712
QY 734 GENNVVIADEGSRNYSADYKANKENDAIPIRMMPESIFRNRYTSDWVAGVYLM 793
Db 713 GALLLVKIGDFGMSRDVYSTDYTRVGCHTMLPIRMMPESIMRKFTESDVSFGLW 772
QY 794 EIFSGLQPYGGAHEEVIYVBDGNLTSCPENCPELVYLMRLCSKLPADSPFSFIH 853
Db 773 EIFTYQPMFQFOLSNTEVICITQGRVLEBRVCPKEVYDVMGCMQREPOQRLNKEIY 832
QY 854 RILERM 859
Db 833 KILHAL 838

```

RESULT 10
US-09-966-147-6

Sequence 6, Application US/09966147

Patent No. US20020146416A1

GENERAL INFORMATION:

APPLICANT: Presta, Leonard G.

Urfer, Roman

Shelton, David L.

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Shelton, David L.

US-09-966-147-6

Query Match 17.3%; Score 792.5; DB 10; Length 839;

Best Local Similarity 25.9%; Pred. No. 4.2e-39;

Matches 254; Conservative 125; Mismatches 244; Indels 357; Gaps 38;

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QY 6 NIDLVH-----LTLVAFSGTEKL-----PKAPVITTLPELVDALEE 43
Db 79 NITSIHENRSLHTLNAVDMELTYGLQKLTINKSGIRSIOPRAFAKNPHLRVINLSSNR 138
QY 44 VATFMCVAVESYPOPEISWTNRKLIKLFDRYSIRENGQLTLTISVED----- 91
Db 139 LTT-----LSM-----QLFOT-LSLRE-----LQLQNFNCSCDIRMM 171
QY 92 -----SDDGITCCCTAANNVGGA-----VESCGLAQVKKPKITPPINVKI 132
Db 172 QLMQOGEAKLNSONLNCINAD-----GSOQLPFRMNSQCDL-----PEISVSHVLTIV 221
QY 133 IEGKAVLPCTTGNPKPSYSWI-----KGPSPLRENSRIAVLESGSLRHNVOKEDEG-Q 187
Db 222 REGDNVAVITCNGSGSPDPVDWITGLQISINTHOTNLNMTNVAHINLTLVNTSDENGFT 281
QY 188 YRCVAKNSLG-----TAY--SKYVKLEFEVFAIRILRAPE--SHNVTGSGFVTLHCT 234
Db 282 LTCIAENVVGMNSNAVALTYYPFRVYSLE-----EPBLRLEHCIEF-----V 324
QY 235 ATGIPVPTIWIENGNAVSSGST--QESVADRVIDSRLQLFITRP-----GLYTCTATNK 287
Db 325 VRGNPPTLHMLHNGQPLRESKLIHVEYIOGEISGCLLF--NKPTHYNGNNTLTIKKNP 383

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QY 288 HGEKSTAKAAATISTAEMSKPOKDNKGCAOYRGVCNAVLAADALVPLINTSYADPEEA 347
DB 384 LG-----TANOTIN-----GH-----FLKEPF--PEST 404
QY 348 QELLVHTAMNELKVSPVCRPAEALLCNHIFQECSPGVPTPIQICRECLAVKEIFCA 407
DB 405 DNF-----LFDEVS----- 415
QY 408 KEMLVMEKTHRGLYNSEHMLLSVPCSKLPSMHMDPTACARLPHLDYKNENIKTPPPMT 467
DB 416 -----TPPI 420
QY 468 -SSKSPVDIPNLPSSSSSSPSPTSMYIISMSFAIFLLITTLCCRRKQMN 526
DB 421 VTKRPEB-----TFGVSTAAGLAACVLLVAVLMKRYGRSKFGM 464
QY 527 K-----KRESAAYL-----TLPSELLDLRHPNM--YORPPLLNFLLSLEY 570
DB 465 KGVAVIAGEEDSASPLHINHGITPPSSL--DAGDVIYIGMTIRIPVIEPNQYFROGH 521
QY 571 -----PRNNIEYRDIGEGAGFVFOARAGLIPYEPFTVAVKMLKEASAD 618
DB 522 NCHRPPTYOHKIRRIYVLRKREGAFKGVFLAECYNLSPTKDKMLVAVKALKDPTLA- 580
DB 619 MOADFOREALMAEFDPNITVILLGVCAYGKPMCLFEYMAAGDLNEFLRSMSPHTVCSL 678
DB 581 ARKDFOREALLNLNLOHEHIVKRYGCGDDPLIMPEYKHKDINKLELAHGP----- 635
QY 679 SHSDLSRAQVSSPPGP-----PLSCAEQLCIARQVAAAGVYLSERKFVHRDLATNCLV 733
DB 636 -----AMILVDGQPRQAKGELIGLSQMLHIASQVYLAHQHFVHRDLATNCLV 687
QY 734 GENMVYVIAFGISRNITSADYK--ANEND-----AIPRMPSPSIFENRY 779
DB 688 GANLVLKIGDFGMSRDYSTDYRKLFPNSGNDPCIMCEVGCHTMLPIRMPSPSINAKRF 747
QY 780 TTESDVAWYGVLMIEFSGIAPYGAHEVIYYVYRDGNILSCPENCPELYNLMELCW 839
DB 748 TTESDVAWVFGVILMEIFYGKQPMFQJNSTEVIETCIQGVLEBRVYCPREYVDVLMGCV 807
QY 840 SKLPADPSTSTHRIIERM 859
DB 808 QREPOQLNITEYKILHAL 827

```

RESULT 11
US-09-961-403-3

```

; Sequence 3, Application US/09961403
; Publication No. US20030077589A1
; GENERAL INFORMATION:
; APPLICANT: HE-STUMP, HOLGER
; APPLICANT: HAENDLER, BERNARD
; APPLICANT: KRAETZSCHMAR, JOERN
; APPLICANT: KREFT, BERTHOUT
; APPLICANT: WINTERHAGER, ELKE
; APPLICANT: REGIDOR, PEDRO
; APPLICANT: SCOTT, SIMONE
; TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS
; FILE REFERENCE: SCH-1789
; CURRENT APPLICATION NUMBER: US/09/961.403
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1070
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-961-403-3

```

Query Match 16.9%; Score 774; DB 9; Length 1070;
Best Local Similarity 27.2%; Pred. No. 6.9e-38;
Matches 228; Conservative 137; Mismatches 304; Indels 168; Gaps 29;

```

QY 55 POEISMTNKLILIKLFDTRYISIRENGOLITLIVESDDGIYCCANNVGGAVERSCGA 114
DB 350 PEPSSVMEHAAGVLA---PTHGRYQKGHELVLANIAESDAGYTTCAANLAAGRRDVA- 405
QY 115 LQYKMKPTTPRPINVKIEGLKAVLPCITMGKPSVSWIKGDSPLRENSRIAVLESQS 174
DB 406 ITVAIVPSMLKRRQDSQLEBGRKGYDLCTLOATPKPTVWYRQMLISDSREPREVKNGT 465
QY 175 LRHNQKEDAGQRCVYAKNSLGTASVYKLEFEVFAILRP---EHNHTFGSFVLT 231
DB 466 LRINSVEYDGTWYRKMSSTPAGSIEAQAQ---LQVLEKLTFTPPPOQCMGFEKATV 522
QY 232 HCATGAPVPTTWINGNAVSSGSIQESYKDRVIDISRLQFLTK-----PGLYTCIATN 286
DB 523 PCSATGREKPTIKMER-----ADGS---SLPEVNTNAGLHARVTRDAGNYTCIASN 574
QY 287 HGEKSTAKAAATISTAEMSKPOKDNKGCAOYRGVCNAVLAADALVPLINTSYADPEE 346
DB 575 -----GPOGQIRAHVOLTV-----AVFI--TEKVEPER 600
QY 347 AOELLVHTAMNELKVSPVCRPAEALLCNHIFQECSPGVPTPIQICRECLAVKEIFC 406
DB 601 TVYQGHYA-----LQCEADGDPKPL----- 622
QY 407 AKEMLVMEKTHRGLYNSEHMLLSVPCSKLPSMH-----WDPTACARLPHLDY 455
DB 623 -IQW-----KGRILIDPTKLG--PRNHIFQNGSLVHDAVEDSGRYCIAG 667
QY 456 KRENKLTTPPPMTSSKSPVDIPNLPSSSSSSPSPTSM--TVIISMSFAIFVLLNI 512
DB 668 NSCNIRKHTAPLY---VVDKP--VPRESEGPS--PPYKMIQITIGLSGAAVAYITIAVVG 721
QY 513 TLTYCC---CRRKQNNKKRESAAYL-----TLPSELLDLRHPNPMYORM 557
DB 722 LMFTYCKKRCARLQOPEBEERPMGCLNGPIQNOQPSALIEEVALISLSGGPATNK 781
QY 558 PLLNPKLLSLEYPRNNIEYRDIGEGAGFVFOARAGLIPYEPFTVAVKMLKEASA 617
DB 782 RHSTDSK---MHPRSSIOPITTLGKSEFEVFLAQAOGIEGVAETLVLYKLSQSK-DE 837
QY 618 DMQADFOREALMAEFDPNITVILLGVCAYGKPMCLFEYMAAGDLNEFLRSMSPHTVCS 677
DB 838 QQQDLFERLEMGKLVHAAVVRLLGLCPRAEETHVILEYVLEDLKQFIR----- 888
QY 678 LSHS-DLSMRAQVSSPPGPPLSCAEQLCIARQVAAAGVYLSERKFVHRDLATNCLVGEN 736
DB 889 ISKSKDEKLKSO-----PLSTKQKVALCTOYALGMEHLSNNRFVHKDLAARNCLVSAQ 941
QY 737 MVYKIADFGISRNITSADYKANDAIPIRMPSPSIFNRTTSDVAWYGVLMIEF 796
DB 942 ROYKVSALIGLSKVYNSYHFRQ--AMVALRMMSPPEALLEGDSTSDVAWVSGVLMWVEV 1000
QY 797 SYGLAPYGAHEVIYYVYRDGNILSCPENCPELYNLMRLCMSKLPADPSTST 852
DB 1001 THGEMPHGQADDEVLDLADAGARLPPQBCFSKLYRLMQRMALSPDRPSPSEI 1057

```

RESULT 12
US-10-242-943-4

```

; Sequence 4, Application US/10242943
; Publication No. US20030087412A1
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Schultz, Vincent P.
; APPLICANT: Yang, MeiJa
; TITLE OF INVENTION: NIK1 PROTEIN AND NIK1 PROTEIN COMPLEXES
; FILE REFERENCE: 15966-521 NIK1 protein complexes
; CURRENT APPLICATION NUMBER: US/10/242.943
; PRIOR APPLICATION NUMBER: US/09/167,206
; NUMBER OF SEQ ID NOS: 26

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SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 4
 LENGTH: 641
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-242-943-4

Query Match 16.2%; Score 741; DB 9; Length 641;
 Best Local Similarity 36.5%; Pred. No. 3.5e-36;
 Matches 183; Conservative 70; Mismatches 159; Indels 90; Gaps 14;

QY 394 CREY-----CLAVELFCARWMLMEKTHRGVLRSEMHLLSVKCSKLPMSH 441
 DB 154 CREMDEQIRLMDQMLKCLSAE-----EYSSQKEDK-----YEEIKITL-----DKL--- 197
 DB 442 WDFPACARLPHLDNKNKLTFFPMTSSKPSVDLPNLPSSSSSFVSPTYSMTV-IST 500
 DB 198 -----EAEFRAEFARSVAKLEKTDLEDNNTSGDPVEKKDETPFGVS 243
 QY 501 MSSEFAIVLITLTY-----CCRKRQWKNK-----KRESAAYTL-----TTLPSE 542
 DB 244 AVGLAVFACLEFLSTLLVINKGRNKFGINRPAVLAPEDGLAMSLHFMILGSSLSPT 303
 QY 543 -----LLDLRLHPNPMYRMLLPKLLSLEYPRNNIEYVADIGEGAFGRVFOARAGLT 598
 DB 304 GKSGSLGHIENPQYFSDACVHHIK-----RRDIYKWELEGAFKGVFLAECHNLL 356
 QY 599 PYEPFTWAVKMLKEASADQADFOREALMAFEQNPNTYKLLVCACVCKPMLLEFYM 658
 DB 357 PEQKMLVAVKAL-EEASESARODFOREALMLQHOHIVRFQVCTEGPPLMVEYM 415
 QY 659 AYGDNLNLSMSPHTVCSLSHSDLSRAQVSSPGPPLSCAEOLCIARQVAAAGVASE 718
 DB 416 RHGDLNRLRSHGP-----DAKLLAGEEDVAPPLIGOLLAASQVAAAGVAYLNR 466
 QY 719 RKFYRLRLATRNCLVGENMYKTADEGLSRNITSADYKKNANDALPIRMPPESITFNR 778
 DB 467 LHFVRLRLATRNCLVGENMYKTADEGLSRNITSADYKKNANDALPIRMPPESITFNR 778
 QY 779 YTFESDWAYGVVLMLEFSGYGLQPYGMAHEVEVYVYRDGNILSCPNCPVELYNLRLC 838
 DB 527 FTTESDWAYGVVLMLEFSGYGLQPYGMAHEVEVYVYRDGNILSCPNCPVELYNLRLC 838
 QY 839 WSKLPADRPSTSIHRLIERMC 860
 DB 587 WOREPSNATA-----SRMC 600

RESULT 13
 US-10-011-548-33
 Sequence 33, Application US/10011548
 Publication No. US20030055218A1
 GENERAL INFORMATION:

APPLICANT: Timans, Jacqueline C.
 Antonius
 Sana, Theodore R.
 Bazan, J. Fernando
 Kastelein, Robert A.
 TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
 NUMBER OF SEQUENCES: 36
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: DNAX Research Institute
 STREET: 901 California Avenue
 CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94304-1104
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/011,548
 FILING DATE: 22-Oct-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/173,151
 FILING DATE: <Unknown>
 APPLICATION NUMBER: US 60/065,776
 FILING DATE: 17-Nov-1997
 APPLICATION NUMBER: US 60/078,008
 FILING DATE: 12-Mar-1998
 APPLICATION NUMBER: US 60/081,883
 FILING DATE: 15-Apr-1998
 APPLICATION NUMBER: US 60/095,987
 FILING DATE: 10-Aug-1998
 APPLICATION NUMBER: US 60/078,416
 FILING DATE: 18-Mar-1998
 APPLICATION NUMBER: US 60/062,066
 FILING DATE: 15-Oct-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Chung, Edwin P.
 REGISTRATION NUMBER: 34,090
 REFERENCE/DOCKET NUMBER: DX0767X
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650)852-9196
 TELEFAX: (650)496-1200

INFORMATION FOR SEQ ID NO: 33:

SEQUENCE CHARACTERISTICS:

LENGTH: 802 amino acids

TYPE: amino acid

STRANDEDNESS: No.

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 33:

US-10-011-548-33

Query Match

Best Local Similarity 15.2%; Score 695.5; DB 9; Length 802;

Matches 230; Conservative 104; Mismatches 266; Indels 237; Gaps 27;

QY 84 LTLISVEDSDGICYCTANNNGV-----GGAVESGALQYKMKPXTTRPPI-- 129
 DB 86 LEIASFLPEDAGRILCLARGSMIVLQNLITLITGSLTSSNDE---DPKSHRDSNNHSY 142
 QY 130 -----VKITEGLKAY-----LPCTMGNPSPYSWIKGSPLENSRIAVL-- 170
 DB 143 PQQAPYWTHPQREKRLHAAVAGNTYKFRCPAAGNPPTIRMLKDGQAFGENRIGIRL 202
 QY 171 -ESGSLRIHNVQKEDAGYRCVAKNSLGT-AVSKYVK-LEFEVFARILRA--PESHNV 224
 DB 203 RHQWMSLVMSVPSDGGTTCLEAVNAVGSIRNIVLDVLEFRSHRITLDAGLPANTTAV 262
 QY 225 FGSFVTLCTATGIPVETITWIE---NGN---AVSSGSIOESYKRVIDSRLQLEFTR- 276
 DB 263 VGSDFVELLCKVYSDAQPHIQMLKHIYVINGSSFGVGPYQVLTADINSSEVEVLYLRN 322
 QY 277 -----PGLYCIATNKHGKEKFSRAKAAATISIMESK--POKNGKGCAYRGEVCNAV 329
 DB 323 VSAEDAGEYTCLAGNSIGLSYQSA-----WLTVLEEDPPTWTAAPEARPYDIL 372
 QY 330 AKDALVFLNTSYADPEAEQELLVHTAMNELKVSPVCPAPAEALLCNHIFQECSPGVPT 389
 DB 373 -----VSGSLALAVLLLLA----- 387
 QY 390 PIPICREYCLAVKELFCARWMLMEKTHRGVLRSEMHLLSVKCSKLPMSHMDPTACAR 449
 DB 388 -----GLYRQ-----ALH-----GR 398
 QY 450 LPHLDYKKNKLTFFPMTSSK-----PSVDLPNLPSSSSSFVSPTYSMTVVISMSFA 505
 DB 399 HPR-----PPATVOKLSRFPLAROFSLSSGSSGKSSSLVGRV-----LSSSG 442

QY 506 IFVLLITTLTTCORRRKMKKRESAAVLTTLTLPSELLDRLHPNMYORMLLNPKL 565
 Db 443 PDLGLAGVSL-----DLPID-----PLM----- 460
 QY 566 LSLFPPRNIEYVRIDGEGAFGRVFOARAPGLPYEP--FTYVAVKMLKEASADMOADF 623
 Db 461 ---EFFRDLRYLKGPLGEGCGGVYRAEAFGMDPAPDOASTVAVKMLKDNADKDLADL 517
 QY 624 QREAAALMAEFD-NPNIVKLLGVCAGVAKPMCLLFEYAYAGDNLNFIASMSHTYCSLSHD 662
 Db 518 VSEMEYMKLIGRRKRIINLLGCTQEGPLVIVECAKAGNLREFLRARP-----PGPD 571
 QY 683 LSRMAOVSSPPPLSCAEQOLCTARQVAAAGMAYLSRKFVRDLATRNCLVGENMYVYKIA 742
 Db 572 LSPDGRSSSEG--PLSFPLVSCAYQVARGMOYLESKCHIRDLAARNVLTEDNWKIA 629
 QY 743 DGLSNRIYSADYKANKENDALPIRMMPRESIFNRYTTESDWAYGVVLMELFISYGLOP 802
 Db 630 DGLARGVHHIDYKTKTSNGRLPVKWMAPREALFDRVYTHQSDVMSGILLMEIFTLGSGP 689
 QY 803 YYGMAHEVITYYRDNIILSCPENCVELYNMLRLCWSKLPADRPFSTSHRLERH 859
 Db 690 YPGIPEELFSLRLGRMDRPHCPPELYGLMRECMHAAPSQRPFTKOLVREALDY 746

RESULT 14
 US-09-758-386-3

; Sequence 3, Application US/09758386
 ; Patent No. US20010016355A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Human Genome Sciences, Inc. et al.
 ; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-5
 ; FILE REFERENCE: PF486PCT
 ; CURRENT APPLICATION NUMBER: US/09/758,386
 ; CURRENT FILING DATE: 2001-01-12
 ; PRIOR APPLICATION NUMBER: 09/293,182
 ; PRIOR FILING DATE: 1999-04-16
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 3
 ; LENGTH: 802
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-758-386-3

Query Match 15.2%; Score 693.5; DB 10; Length 802;
 Best Local Similarity 27.3%; Pred. No. 2.9e-33;
 Matches 243; Conservative 101; Mismatches 284; Indels 261; Gaps 31;

QY 81 GOLLT-----ILSEVSDGIIYCCITANNNGVAGAVESGALQVAKKPTIRPPINVKIIEG 135
 Db 9 GVLLSVPGPVLSLASEE-----VE-----LEPLASLEQGBELVYALG 50
 QY 136 LRAVLDPCTWGNPKPSVSWIKGDSPLRENSRIAVLESGLRIHNVOKEDAGYRCVAKNS 195
 Db 51 QPVRLLCC--GRAERGGHMKESGRLAPAGRVGRWR-GRLEIASFLPEDAGRYLCIARGS 106
 QY 196 -----LGTASKVYVKKLEFEVFAHLRAPESHN----- 222
 Db 107 MYVLQNLTLITGSLTSSNDE-----DPKSHRDPNSRHSSTPQAPYTHPQREKKL 139
 QY 223 --VTFGSFYLIHCTATGIPVPTITWTENGNAVSS-----GSIQ-----ESVKDRVIDSRL 270
 Db 160 HAVPAQNTVYKFRCPAAGNPPTIRIWLKDGQAFHGENRIGIRLRHQHWSLVMSVYPS-- 217
 QY 271 QLFITPGLYTCIAITKKGKSTAKAALITIAESKPOKD--NKGYCAQYGEVCNAV 328
 Db 218 ----DRGYTCTEYNAVG---SIRYNLLDVLERS-PHRPILOGLPAN-----TTAV 262
 QY 329 LAKDALVPLNTSYADEEAQELVHTAMN-----ELKVVSPVCRPAEALLCN 376
 Db 263 VGSDD-VELICKVYSDAQPHIQMLKHIVINGSFGADGFPYVOVLKADIINSSEVEVLYLR 321

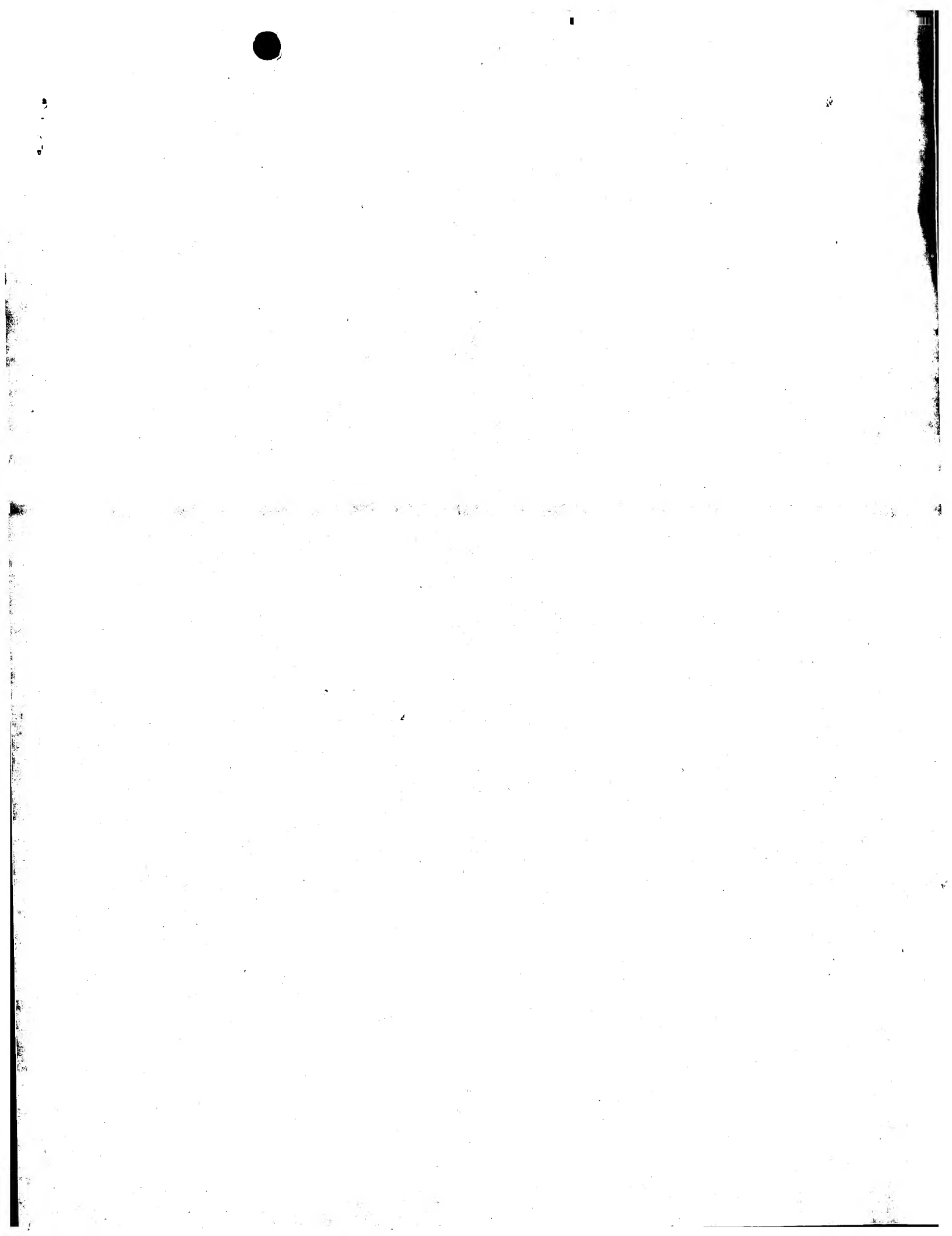
QY 377 HIPOCSPGVVPPIPICREY-CLAVKELFCAKEMLVMEKTHRGYRSEHLLSVPKCS 435
 Db 322 NVSAEDA-----GEYTLAAGNSI-----GLSYQSAWLTIVPE-- 353
 QY 436 KLPDSMHDPACARLPHLDYKNENLTFPPMTSSKKSVDIPNLPSSSSSSFVSPLYSMK 495
 Db 354 -----EDPWTAAAEARAT----- 369
 QY 496 VIITINSFALIFLLITTLTTCORRRKMKKRESAAVLTTLTLPSELLDRLHPNP--- 552
 Db 370 IILYASGSLALVALLLAGLY---RGQ-----ALHGHRPPRAT 405
 QY 553 --MYORMLP-----LNPXLLS-----LEXPRN 573
 Db 406 VOKLSRFPPLARQPSLESSESSKSSSLRYGRVRLSSSGPALLAGVLSLDLPDLMERPDR 465
 QY 574 NIETVRDIGEAGRFFQARAPGLPYEP--FTYVAVKMLKEASADMOADFQREALMA 631
 Db 466 RLVLGRPLGEGCGGVYRAEAFGMDPAPDOASTVAVKMLKDNADKDLADLVSEMEYMK 525
 QY 632 EFD-NPNIVKLLGVCAGVAKPMCLLFEYAYAGDNLNFIASMSHTYCSLSHDSLRMAOV 690
 Db 526 LIRHKNITLNLGCTQEGPLVIVECAKAGNLREFLRARP-----PGPDLSPOGRS 579
 QY 691 SPGPPPLSCAEQOLCTARQVAAAGMAYLSRKFVRDLATRNCLVGENMYVYKIADEGLSRI 750
 Db 580 SEG--PLSFPLVSCAYQVARGMOYLESKCHIRDLAARNVLTEDNWKIADEGLARGV 637
 QY 751 YSADYKANKENDALPIRMMPRESIFNRYTTESDWAYGVVLMELFISYGLOPYGMAHEE 810
 Db 638 HHIDYKTKTSNGRLPVKWMAPREALFDRVYTHQSDVMSGILLMEIFTLGSGPGLVEE 697
 QY 811 VIIVYRDNIILSCPENCVELYNMLRLCWSKLPADRPFSTSHRLERH 859
 Db 698 LFSILRGRHMDRPHCPPELYGLMRECMHAAPSQRPFTKOLVREALDKV 746

RESULT 15
 US-09-757-415A-2

; Sequence 2, Application US/09757415A
 ; Publication No. US20030040612A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhou, Ming-Ming
 ; TITLE OF INVENTION: Methods of Identifying Modulators of the FGF Receptor
 ; FILE REFERENCE: 2459-1-002N
 ; CURRENT APPLICATION NUMBER: US/09/757,415A
 ; CURRENT FILING DATE: 2001-01-09
 ; PRIOR APPLICATION NUMBER: 60/175867
 ; PRIOR FILING DATE: 2000-01-12
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 822
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; US-09-757-415A-2

Query Match 14.9%; Score 679; DB 9; Length 822;
 Best Local Similarity 25.6%; Pred. No. 2.1e-32;
 Matches 231; Conservative 127; Mismatches 288; Indels 256; Gaps 30;

QY 33 PLETVDAIVE-EVAFFMCAVESYPOPEISWTRNKI-LILFPTRSIRNGOLLITLSV 89
 Db 37 PVEVESLIVHPGDLLOLRCLRDVOQ-SINMLRDGVOLVESNRTITGEE-----VEV 88
 QY 90 EDS--DDGIYCTANNVG-----AVESGAL-----Q 116
 Db 89 RDSIPASGLYACTVSSPSGSDTYTSVNVSDALPSEDDDDSSSEKETDNTPKR 148
 QY 117 VKMKPITRPPINVKIIEGLKAV---LPCTWGNPKPSVSWIKGDSPLRENSRIAYLE- 171
 Db 149 RPVAPVYTSPEKKEKKLHAAPAKYVFKPSSGTPPTIRLWLNKNGREFDRHIGGYK 208



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OM protein - protein search, using sw model

Run on: June 18, 2003, 10:21:12 ; Search time 18 Seconds
(without alignments)
1420.473 Million cell updates/sec

Title: US-09-817-487A-2

Perfect score: 4569

Sequence: 1 MRELVNIPVLHILTLVAFSG.....TSIRHLIERMCEAGTVSV 869

coring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Database :

Issued Patents AA.*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PTCUS_COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4558	99.8	869	1	US-08-374-834-16
2	4558	99.8	869	2	US-08-644-271-29
3	4558	99.8	869	4	US-09-077-955-33
4	4292.5	93.9	868	1	US-08-374-834-1
5	4292.5	93.9	868	2	US-08-644-271-1
6	4292.5	93.9	868	4	US-09-077-955-1
7	4269.5	93.4	868	5	PCT-US95-08493-21
8	4220.5	92.4	860	5	PCT-US95-08493-19
9	2897.5	56.9	445	5	PCT-US95-08493-13
10	2597.5	50.6	478	5	PCT-US95-08493-2
11	2312	50.6	478	5	PCT-US95-08493-15
12	1577	34.5	304	2	US-08-701-191A-30
13	899	19.7	937	2	US-08-469-537A-105
14	876	19.2	943	2	US-08-469-537A-107
15	862	18.9	821	1	US-08-339-578-2
16	861	18.8	822	2	US-08-359-705B-2
17	861	18.8	822	2	US-08-286-846A-2
18	861	18.8	822	2	US-08-457-880A-2
19	861	18.8	822	3	US-08-444-622A-2
20	861	18.8	822	3	US-08-942-562-2
21	861	18.8	822	4	US-09-156-923-2
22	861	18.8	847	1	US-08-286-305A-5
23	861	18.8	847	2	US-08-441-104A-5
24	861	18.8	847	2	US-08-440-816A-5
25	861	18.8	847	4	US-09-417-381A-5
26	814.5	17.8	800	2	US-08-469-537A-72
27	814.5	17.8	800	2	US-08-469-537A-78

28	810	17.7	790	2	US-08-359-705B-9	Sequence 9, Appl1
29	810	17.7	790	2	US-08-286-846A-9	Sequence 9, Appl1
30	810	17.7	790	2	US-08-457-880A-9	Sequence 9, Appl1
31	810	17.7	790	3	US-08-444-622A-9	Sequence 9, Appl1
32	810	17.7	790	3	US-08-942-562-9	Sequence 9, Appl1
33	810	17.7	790	4	US-09-156-923-9	Sequence 9, Appl1
34	810	17.7	814	1	US-08-286-305A-3	Sequence 3, Appl1
35	810	17.7	814	2	US-08-441-104A-3	Sequence 3, Appl1
36	810	17.7	814	2	US-08-440-816A-3	Sequence 3, Appl1
37	810	17.7	814	4	US-09-417-381A-3	Sequence 3, Appl1
38	807.5	17.7	850	1	US-08-286-305A-7	Sequence 7, Appl1
39	807.5	17.7	850	2	US-08-441-104A-7	Sequence 7, Appl1
40	807.5	17.7	850	4	US-08-440-816A-7	Sequence 7, Appl1
41	807.5	17.7	850	4	US-09-417-381A-7	Sequence 7, Appl1
42	792.5	17.3	839	2	US-08-359-705B-6	Sequence 7, Appl1
43	792.5	17.3	839	2	US-08-286-846A-6	Sequence 6, Appl1
44	792.5	17.3	839	2	US-08-457-880A-6	Sequence 6, Appl1
45	792.5	17.3	839	3	US-08-444-622A-6	Sequence 6, Appl1

ALIGNMENTS

RESULT 1
US-08-374-834-16
Sequence 16, Application US/08374834

Patent No. 5656473

GENERAL INFORMATION:

APPLICANT: Valenzuela, et al.

TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Regeneron Pharmaceuticals, Inc.

STREET: 777 Old Saw Mill River Road

CITY: Tarrytown

STATE: New York

COUNTRY: USA

ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/374,834

FILING DATE: 19-JAN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/095,658

FILING DATE: 21-JUL-1993

ATTORNEY/AGENT INFORMATION:

NAME: Covert, Robert J.

REGISTRATION NUMBER: 36,108

REFERENCE/DOCKET NUMBER: REG 190A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (914) 345-7400

TELEFAX: (914) 345-7721

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:

LENGTH: 869 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-374-834-16

Query Match 99.8%; Score 4558; DB 1; Length 869;
Best Local Similarity 99.8%; Pred. NO. 0;
Matches 867; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 MRELVNIPVLHILTLVAFSGTEKLPKAPVITTPLETVDAIVEEYATMCAVESYPOEIS 60
1 MRELVNIPVLHILTLVAFSGTEKLPKAPVITTPLETVDAIVEEYATMCAVESYPOEIS 60

```

QY 61 WTRNKILIKLFDTRYISIRENGQLLTLLSVSDSDGICYCTANNVGAVGAVESGALGVKMK 120
DB 61 WTRNKILIKLFDTRYISIRENGQLLTLLSVSDSDGICYCTANNVGAVGAVESGALGVKMK 120
QY 121 PKTRPPINKIIEGLKAVLPCTTMGNPKPSVMIGDPSLRNSRLAVLESGLRIHNV 180
DB 121 PKTRPPINKIIEGLKAVLPCTTMGNPKPSVMIGDPSLRNSRLAVLESGLRIHNV 180
QY 181 OKEDAGYRCVANKSLGTAYSKVYKLEFEVFARILRAPESHNTFGSFVTLHCTATGIPV 240
DB 181 OKEDAGYRCVANKSLGTAYSKVYKLEFEVFARILRAPESHNTFGSFVTLHCTATGIPV 240
QY 241 PTTWIENGNAVSSGSIQESVKRVIDSRQLFTTRPGLTCTATNKHGKESTARAAT 300
DB 241 PTTWIENGNAVSSGSIQESVKRVIDSRQLFTTRPGLTCTATNKHGKESTARAAT 300
QY 301 ISTAEMSKPOKDNKGCAOYRGVCNVAVLAKDALVFLNTSYADPEEAOELLVHTANNEK 360
DB 301 ISTAEMSKPOKDNKGCAOYRGVCNVAVLAKDALVFLNTSYADPEEAOELLVHTANNEK 360
QY 361 VVSPVCRPAEALLCNHIFQECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
DB 361 VVSPVCRPAEALLCNHIFQECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
QY 421 LYSEMHLLSVPCSKLPSMHMDPTACARLPHLDYKNEKLTTPMTSSKPSVDIPNLP 480
DB 421 LYSEMHLLSVPCSKLPSMHMDPTACARLPHLDYKNEKLTTPMTSSKPSVDIPNLP 480
QY 481 SSSSFVSPTYSMTVIISIMSSPAIFVLLITTLVYCCRRRKQKMKKRESAAVTLTTL 540
DB 481 SSSSFVSPTYSMTVIISIMSSPAIFVLLITTLVYCCRRRKQKMKKRESAAVTLTTL 540
QY 541 SELLDRLHNPMTQORPPLLNPKLLSLEYPRNNIEVRDIGGAGRGVFOARAPGLLP 600
DB 541 SELLDRLHNPMTQORPPLLNPKLLSLEYPRNNIEVRDIGGAGRGVFOARAPGLLP 600
QY 601 EPTFMVAVKMLKEBASADMOADFOREALMAEFDPNIVKLGVCAVGKPMCLFEYMA 660
DB 601 EPTFMVAVKMLKEBASADMOADFOREALMAEFDPNIVKLGVCAVGKPMCLFEYMA 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPISCAEOCLIAQVAAAGAYLSER 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPISCAEOCLIAQVAAAGAYLSER 720
QY 721 FVHRDLATRCVGENNVVVIADPGLSRNITYSADYKANENDAIPIPMMPESIFRYRT 780
DB 721 FVHRDLATRCVGENNVVVIADPGLSRNITYSADYKANENDAIPIPMMPESIFRYRT 780
QY 781 TESDVMAVGVLMWEIFSYGLQPYGMAHEEVIYVRDGNILSCPENCVELYNLMRLCWS 840
DB 781 TESDVMAVGVLMWEIFSYGLQPYGMAHEEVIYVRDGNILSCPENCVELYNLMRLCWS 840
QY 841 KLPADRSFTSIHRIILRMCERAGTYSV 869
DB 841 KLPADRSFTSIHRIILRMCERAGTYSV 869

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RESULT 2

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US-08-644-271-29
Sequence 29, Application US/08644271
Patent No. 5814478
GENERAL INFORMATION:
APPLICANT: Valenzuela, et al.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS
TITLE OF INVENTION: AND LIGANDS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESS: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill Road
CITY: Tarrytown
STATE: NY
COUNTRY: USA

```

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ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/644,271
FILING DATE: 10-MAY-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/008,657
FILING DATE: 15-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 195A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 914-345-7400
TELEFAX: 914-345-7721
TELEX:
INFORMATION FOR SEQ. ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 869 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-644-271-29

Query Match 99.8%; Score 4556; DB 2; Length 869;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 867; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRELNVPIVHILITVAFSGTEKLPAPVITTELYDALVEEATFMCVSEYPOPEIS 60
DB 1 MRELNVPIVHILITVAFSGTEKLPAPVITTELYDALVEEATFMCVSEYPOPEIS 60
QY 61 WTRNKILIKLFDTRYISIRENGQLLTLLSVSDSDGICYCTANNVGAVGAVESGALGVKMK 120
DB 61 WTRNKILIKLFDTRYISIRENGQLLTLLSVSDSDGICYCTANNVGAVGAVESGALGVKMK 120
QY 121 PKTRPPINKIIEGLKAVLPCTTMGNPKPSVMIGDPSLRNSRLAVLESGLRIHNV 180
DB 121 PKTRPPINKIIEGLKAVLPCTTMGNPKPSVMIGDPSLRNSRLAVLESGLRIHNV 180
QY 181 OKEDAGYRCVANKSLGTAYSKVYKLEFEVFARILRAPESHNTFGSFVTLHCTATGIPV 240
DB 181 OKEDAGYRCVANKSLGTAYSKVYKLEFEVFARILRAPESHNTFGSFVTLHCTATGIPV 240
QY 241 PTTWIENGNAVSSGSIQESVKRVIDSRQLFTTRPGLTCTATNKHGKESTARAAT 300
DB 241 PTTWIENGNAVSSGSIQESVKRVIDSRQLFTTRPGLTCTATNKHGKESTARAAT 300
QY 301 ISTAEMSKPOKDNKGCAOYRGVCNVAVLAKDALVFLNTSYADPEEAOELLVHTANNEK 360
DB 301 ISTAEMSKPOKDNKGCAOYRGVCNVAVLAKDALVFLNTSYADPEEAOELLVHTANNEK 360
QY 361 VVSPVCRPAEALLCNHIFQECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
DB 361 VVSPVCRPAEALLCNHIFQECSPGVVPTPIPCREYCLAVKELFCAKEMLVMEKTHRG 420
QY 421 LYSEMHLLSVPCSKLPSMHMDPTACARLPHLDYKNEKLTTPMTSSKPSVDIPNLP 480
DB 421 LYSEMHLLSVPCSKLPSMHMDPTACARLPHLDYKNEKLTTPMTSSKPSVDIPNLP 480
QY 481 SSSSFVSPTYSMTVIISIMSSPAIFVLLITTLVYCCRRRKQKMKKRESAAVTLTTL 540
DB 481 SSSSFVSPTYSMTVIISIMSSPAIFVLLITTLVYCCRRRKQKMKKRESAAVTLTTL 540
QY 541 SELLDRLHNPMTQORPPLLNPKLLSLEYPRNNIEVRDIGGAGRGVFOARAPGLLP 600
DB 541 SELLDRLHNPMTQORPPLLNPKLLSLEYPRNNIEVRDIGGAGRGVFOARAPGLLP 600

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QY 601 EPTMVAVKMLKEASADMOADFORAALMAEFNDPNIVKLLGVCAVCKPMLCFFEMAY 660
DB 601 EPTMVAVKMLKEASADMOADFORAALMAEFNDPNIVKLLGVCAVCKPMLCFFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPPLSCAEOLCIAROVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPPLSCAEOLCIAROVAAGMAYLSERK 720
QY 721 FVHRDLATRNCLVGENNVVKIADFGLSRNITYSADYKANENDAIPIRMMPESIFNRYT 780
DB 721 FVHRDLATRNCLVGENNVVKIADFGLSRNITYSADYKANENDAIPIRMMPESIFNRYT 780
QY 781 TESVMAVGYVLMEIFSYGLQPYYGMAHEVIYVRDGNILSCPCNPVELYINMLRCLWS 840
DB 781 TESVMAVGYVLMEIFSYGLQPYYGMAHEVIYVRDGNILSCPCNPVELYINMLRCLWS 840
QY 841 KLPADRPSTSIHRILERMCEAEGTVSV 869
DB 841 KLPADRPSTSIHRILERMCEAEGTVSV 869

RESULT 3
US-09-077-955-33
Sequence 33, Application US/09077955A
Patent No. 6413740
GENERAL INFORMATION:
APPLICANT: Valenzuela et al., David M.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS AND LIGANDS
FILE REFERENCE: REG195-B-PCR-US
CURRENT APPLICATION NUMBER: US/09/077, 955A
EARLIER FILING DATE: 1998-09-10
EARLIER APPLICATION NUMBER: PCT/US96/20696
EARLIER FILING DATE: 1996-12-13
EARLIER APPLICATION NUMBER: 08/644, 271
EARLIER FILING DATE: 1996-05-10
EARLIER APPLICATION NUMBER: 60/008, 657
EARLIER FILING DATE: 1995-12-15
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 33
LENGTH: 869
TYPE: PRT
ORGANISM: Homo sapiens
S-09-077-955-33

Query Match 99.8%; Score 4558; DB 4; Length 869;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 867; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRELVINPIVHLITLVAFGSTKLPKAPVITTPLETVDAIVEVATFMCVAVESYPOPEIS 60
DB 1 MRELVINPIVHLITLVAFGSTKLPKAPVITTPLETVDAIVEVATFMCVAVESYPOPEIS 60
QY 61 WTRNKLILKLFDRYSIRENGQLTILSYEDSDDGICTANNGVGVAVESGALOVKKK 120
DB 61 WTRNKLILKLFDRYSIRENGQLTILSYEDSDDGICTANNGVGVAVESGALOVKKK 120
QY 121 PRTTTPPIVVKIIEELKATLPCTTMGNRPVSWIKGDSPLRENSRIAVLESGLRIHNV 180
DB 121 PRTTTPPIVVKIIEELKATLPCTTMGNRPVSWIKGDSPLRENSRIAVLESGLRIHNV 180
QY 181 OKEDAGORYCAVAKNSLGTAYSKVVKLEFEVAFIRAPASHVNTGSPFTLHCTATGTPV 240
DB 181 OKEDAGORYCAVAKNSLGTAYSKVVKLEFEVAFIRAPASHVNTGSPFTLHCTATGTPV 240
QY 241 PRTTTPPIVVKIIEELKATLPCTTMGNRPVSWIKGDSPLRENSRIAVLESGLRIHNV 300
DB 241 PRTTTPPIVVKIIEELKATLPCTTMGNRPVSWIKGDSPLRENSRIAVLESGLRIHNV 300
QY 301 ISIAEMSKPKOKNKGYCAQYRGECVNAVLAQDALVELTTSYADPEADDELVHTAMNELK 360
DB 301 ISIAEMSKPKOKNKGYCAQYRGECVNAVLAQDALVELTTSYADPEADDELVHTAMNELK 360

QY 361 VVSFVCPRAAEALICNHIPOECSPGVPTPIPICREYCLAVKELFCAKEMWMEKTHRG 420
DB 361 VVSFVCPRAAEALICNHIPOECSPGVPTPIPICREYCLAVKELFCAKEMWMEKTHRG 420
QY 421 LYREEMHLLSPKCSKXIPSMHMDPTACARLPHLDYKNENKLTFFPMTSSKPSVDIPULPS 480
DB 421 LYREEMHLLSPKCSKXIPSMHMDPTACARLPHLDYKNENKLTFFPMTSSKPSVDIPULPS 480
QY 481 SSSSFVSPTYSMTVIISIMSFAIFVLLITLTYCCRRRKQKNNKRSAAVTLTTLTLP 540
DB 481 SSSSFVSPTYSMTVIISIMSFAIFVLLITLTYCCRRRKQKNNKRSAAVTLTTLTLP 540
QY 541 SELLDLHLNPNMYPORPPLLNPKLSLEYPRNNIEVRDIEGAGFVQARAPGLLPY 600
DB 541 SELLDLHLNPNMYPORPPLLNPKLSLEYPRNNIEVRDIEGAGFVQARAPGLLPY 600
QY 601 EPTMVAVKMLKEASADMOADFORAALMAEFNDPNIVKLLGVCAVCKPMLCFFEMAY 660
DB 601 EPTMVAVKMLKEASADMOADFORAALMAEFNDPNIVKLLGVCAVCKPMLCFFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPPLSCAEOLCIAROVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPGPPPLSCAEOLCIAROVAAGMAYLSERK 720
QY 721 FVHRDLATRNCLVGENNVVKIADFGLSRNITYSADYKANENDAIPIRMMPESIFNRYT 780
DB 721 FVHRDLATRNCLVGENNVVKIADFGLSRNITYSADYKANENDAIPIRMMPESIFNRYT 780
QY 781 TESVMAVGYVLMEIFSYGLQPYYGMAHEVIYVRDGNILSCPCNPVELYINMLRCLWS 840
DB 781 TESVMAVGYVLMEIFSYGLQPYYGMAHEVIYVRDGNILSCPCNPVELYINMLRCLWS 840
QY 841 KLPADRPSTSIHRILERMCEAEGTVSV 869
DB 841 KLPADRPSTSIHRILERMCEAEGTVSV 869

RESULT 4
US-08-374-834-1
Sequence 1, Application US/08374834
Patent No. 5636473
GENERAL INFORMATION:
APPLICANT: Valenzuela, et al.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill River Road
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/374,834
FILING DATE: 19-JAN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/095,658
FILING DATE: 21-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Covert, Robert J.
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 190A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (914) 345-7400
TELEFAX: (914) 345-7721
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
 LENGTH: 868 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-08-374-834-1

Query Match 93.9%; Score 4292.5; DB 1; Length 868;
 Best Local Similarity 93.2%; Pred. No. 0;
 Matches 810; Conservative 31; Mismatches 27; Indels 1; Gaps 1;

QY 1 MRLVNIPLVHLITLVAASGTEKLPKAPVITPTLETVDAIVEEATFMCAVESYPOPEIS 60
 DB 1 MRLVNIPLVHLITLVAASGTEKLPKAPVITPTLETVDAIVEEATFMCAVESYPOPEIS 60
 QY 61 WTRNKILIKLFDTRYISIRENGQLTLLSVESDDGIYCTANNNGVAGVSCGALQVKK 120
 DB 61 WTRNKILIKLFDTRYISIRENGQLTLLSVESDDGIYCTANNNGVAGVSCGALQVKK 120
 QY 121 PRTTRPPINVKIIEGLKAVLPCTTMGNPKPSVWIKGDSPLRNSRIAVLESGSLRIHNV 180
 DB 121 PRTTRPPINVKIIEGLKAVLPCTTMGNPKPSVWIKGDSPLRNSRIAVLESGSLRIHNV 180
 QY 181 OKEDAGQRCVAKNSLGTAVSKVLEFEVFAFARILAPESHNTFSGFVTLHCTATGIPV 240
 DB 181 OKEDAGQRCVAKNSLGTAVSKVLEFEVFAFARILAPESHNTFSGFVTLHCTATGIPV 240
 QY 241 PTTIWIENGNAVSSGSIQESVKDVIDSRQLFTFKPGLYTCIATNKHGKSTAKAAAT 300
 DB 241 PTTIWIENGNAVSSGSIQESVKDVIDSRQLFTFKPGLYTCIATNKHGKSTAKAAAT 300
 QY 301 ISTAEKSKPOKDNKGCAQYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360
 DB 301 ISTAEKSKPOKDNKGCAQYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360
 QY 361 VSTAEKSKQESKGCAYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360
 DB 361 VSTAEKSKQESKGCAYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360
 QY 421 LYSRGMHFLFVPCSKLPSMHQDPTACTRLPYLDYKKNITPTSTSSPSVDIPLP- 479
 DB 421 LYSRGMHFLFVPCSKLPSMHQDPTACTRLPYLDYKKNITPTSTSSPSVDIPLP- 479
 QY 481 SSSSFSVSPYTMETVYISMSFAIFVLLTITLYCCRRRKKMKKRESAAVTLTTLT 540
 DB 481 SSSSFSVSPYTMETVYISMSFAIFVLLTITLYCCRRRKKMKKRESAAVTLTTLT 540
 QY 541 SELLDRLHPNMYQRPMLLNPKLSLEYPRNNIETVRDIGSAGRGVQAAPGLLPY 600
 DB 541 SELLDRLHPNMYQRPMLLNPKLSLEYPRNNIETVRDIGSAGRGVQAAPGLLPY 600
 QY 601 EPTTMAVAKMKKEASADMDADFORBAALMAEFDNPITVILGVCAAGKMCLEFEMAY 659
 DB 601 EPTTMAVAKMKKEASADMDADFORBAALMAEFDNPITVILGVCAAGKMCLEFEMAY 659
 QY 661 GDINEFLRSMSPHYVCLSHSDLSMRAQVSSPGPPPLSCAEOLCIAQVAAAGAYLSERK 720
 DB 661 GDINEFLRSMSPHYVCLSHSDLSMRAQVSSPGPPPLSCAEOLCIAQVAAAGAYLSERK 720
 QY 721 FVHRDLATRNCLVGENNVKIAIDGSLRNITYSADYIYANENDALPIRMMPPESTFYRYT 780
 DB 721 FVHRDLATRNCLVGENNVKIAIDGSLRNITYSADYIYANENDALPIRMMPPESTFYRYT 780
 QY 781 TESVMAVGVVIMIEFSGLOPYGMAHEEYIYVRGNILSCPENGVETLYNLMRCMS 840
 DB 781 TESVMAVGVVIMIEFSGLOPYGMAHEEYIYVRGNILSCPENGVETLYNLMRCMS 840
 QY 841 KLPADRSFTSIRILERMCEERAGTVSV 869
 DB 841 KLPADRSFTSIRILERMCEERAGTVSV 869
 QY 868 KLPADRSFCSIRIILQRMCEERAGTVGV 868
 DB 868 KLPADRSFCSIRIILQRMCEERAGTVGV 868

RESULT 5

US-08-644-271-1

Sequence 1, Application US/08644271

Patent No. 5814478

GENERAL INFORMATION:

APPLICANT: Valenzuela, et al.

TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS

TITLE OF INVENTION: AND LIGANDS

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESSEE: Regeneron Pharmaceuticals, Inc.

STREET: 777 Old Saw Mill Road

CITY: Tarrytown

STATE: NY

COUNTRY: USA

ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/644,271

FILING DATE: 10-MAY-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: USSN 60/008,657

FILING DATE: 15-DEC-1995

ATTORNEY/AGENT INFORMATION:

NAME: Codette, Robert J

REGISTRATION NUMBER: 36,108

REFERENCE/DOCKET NUMBER: REG 195A

TELECOMMUNICATION INFORMATION:

TELEPHONE: 914-345-7400

TELEFAX: 914-345-7721

TELEX:

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 868 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-644-271-1

Query Match 93.9%; Score 4292.5; DB 2; Length 868;

Best Local Similarity 93.2%; Pred. No. 0;

Matches 810; Conservative 31; Mismatches 27; Indels 1; Gaps 1;

QY 1 MRLVNIPLVHLITLVAASGTEKLPKAPVITPTLETVDAIVEEATFMCAVESYPOPEIS 60
 DB 1 MRLVNIPLVHLITLVAASGTEKLPKAPVITPTLETVDAIVEEATFMCAVESYPOPEIS 60
 QY 61 WTRNKILIKLFDTRYISIRENGQLTLLSVESDDGIYCTANNNGVAGVSCGALQVKK 120
 DB 61 WTRNKILIKLFDTRYISIRENGQLTLLSVESDDGIYCTANNNGVAGVSCGALQVKK 120
 QY 121 PRTTRPPINVKIIEGLKAVLPCTTMGNPKPSVWIKGDSPLRNSRIAVLESGSLRIHNV 180
 DB 121 PRTTRPPINVKIIEGLKAVLPCTTMGNPKPSVWIKGDSPLRNSRIAVLESGSLRIHNV 180
 QY 181 OKEDAGQRCVAKNSLGTAVSKVLEFEVFAFARILAPESHNTFSGFVTLHCTATGIPV 240
 DB 181 OKEDAGQRCVAKNSLGTAVSKVLEFEVFAFARILAPESHNTFSGFVTLHCTATGIPV 240
 QY 241 PTTIWIENGNAVSSGSIQESVKDVIDSRQLFTFKPGLYTCIATNKHGKSTAKAAAT 300
 DB 241 PTTIWIENGNAVSSGSIQESVKDVIDSRQLFTFKPGLYTCIATNKHGKSTAKAAAT 300
 QY 301 ISTAEKSKPOKDNKGCAQYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360
 DB 301 ISTAEKSKPOKDNKGCAQYRGVCNANVLAKDALVPLNTSYADPEEAQELLVTANNEK 360

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QY 361 VSPVCRPAEALLCNHIPOECSPGVPTPIPCREYCLAVKELFCAKEMLWMEKTHRG 420
DB 361 AVSPICRPAEALLCNHIPOECSPGVPTPIPCREYCLAVKELFCAKEMLWMEKTHRG 420
QY 421 LYRSMHLLSVKPKCSKLPMSHMDPTACARLPHLDYKNEKLTFFPMPTSSKSPVDIPNLP 480
DB 421 LYRSMHLLSVKPKCSKLPMSHMDPTACARLPHLDYKNEKLTFFPMPTSSKSPVDIPNLP 480
QY 481 SSSSFVSPTYSMTVTIISMSFAIFVLTITLTYCCRRKOKMKKRESAAVTLTLP 540
DB 481 ASTSSPAVSAMTIVTISMSFAIFVLTITLTYCCRRKOKMKKRESAAVTLTLP 540
QY 541 SELLDRLHNPMTQRMPLINPKLISLEYPRNNIEYVRDIGEAGFVQARAPGLLP 600
DB 541 SELLDRLHNPMTQRMPLINPKLISLEYPRNNIEYVRDIGEAGFVQARAPGLLP 600
QY 601 EPTFMVAVKMLKEASADMDQADPQREAAALMAEFDNPNIYKLGCAVAGKPMCLLFEMAY 660
DB 601 EPTFMVAVKMLKEASADMDQADPQREAAALMAEFDNPNIYKLGCAVAGKPMCLLFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPPGPLSCAEQICIAQVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPPGPLSCAEQICIAQVAAGMAYLSERK 720
QY 721 FVHRDLATNCLVGENNVKVIADFGISRNITYSADYKANKENDAIPIRMMPESIFNYRT 780
DB 721 FVHRDLATNCLVGENNVKVIADFGISRNITYSADYKANKENDAIPIRMMPESIFNYRT 780
QY 781 TESDVAVGVVLMEIFSYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
DB 781 TESDVAVGVVLMEIFSYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
QY 841 KLPADRPSTSTHRIILERCERAEGETVSV 869
DB 841 KLPADRPSTSTHRIILERCERAEGETVSV 869

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RESULT 6
US-09-077-955-1
; Sequence 1, Application US/09077955A
; Patent No. 6413740
; GENERAL INFORMATION:
; APPLICANT: Valenzuela et al., David M.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS AND LIGANDS
; FILE REFERENCE: REG195-B-PCT-US
; CURRENT APPLICATION NUMBER: US/09/077, 955A
; EARLIER FILING DATE: 1998-09-10
; EARLIER APPLICATION NUMBER: PCT/US96/20696
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 08/644, 271
; EARLIER FILING DATE: 1996-05-10
; EARLIER APPLICATION NUMBER: 60/008, 657
; EARLIER FILING DATE: 1995-12-15
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 868
; TYPE: PRT
; ORGANISM: Rattus sp.
US-09-077-955-1

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Query Match 93.9%; Score 4292.5; DB 4; Length 868;
Best Local Similarity 93.2%; Pred. No. 0;
Matches 810; Conservative 31; Mismatches 27; Indels 1; Gaps 1;
DB 1 MRELINIPLVHLLTVAFSGTEKLPKAPVITPTLETVALVLEVATFMCAYESYPOEIS 60
1 MRELINIPLVHLLTVAFSGTEKLPKAPVITPTLETVALVLEVATFMCAYESYPOEIS 60
QY 61 WTRNKILIKLFDTRYSIRENGQLLTILSVEDSDGIIYCTTANNNGVAGVSCGALQVYMK 120
61 WTRNKILIKLFDTRYSIRENGQLLTILSVEDSDGIIYCTTANNNGVAGVSCGALQVYMK 120
DB 61 WTRNKILIKLFDTRYSIRENGQLLTILSVEDSDGIIYCTTANNNGVAGVSCGALQVYMK 120
61 WTRNKILIKLFDTRYSIRENGQLLTILSVEDSDGIIYCTTANNNGVAGVSCGALQVYMK 120

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QY 121 PKTRIPINVKIIEGLKAVLDPCTTMGNKPSVSWIKGDSPLRENSRIAVLESGSLRIHNV 180
DB 121 PKTRIPINVKIIEGLKAVLDPCTTMGNKPSVSWIKGDSPLRENSRIAVLESGSLRIHNV 180
QY 181 OKEDAGQRCVAKNSLSGTAISKVYKLEFEVAFARILRAPESNNVFGSFVTLHCTATGIPV 240
DB 181 OKEDAGQRCVAKNSLSGTAISKVYKLEFEVAFARILRAPESNNVFGSFVTLHCTATGIPV 240
QY 241 PTIWIENGNAVSSGSIQESYKDRVDSRLQFLTFTKGLYLCIATNKHGEFSTAKAAAT 300
DB 241 PTIWIENGNAVSSGSIQESYKDRVDSRLQFLTFTKGLYLCIATNKHGEFSTAKAAAT 300
QY 301 ISTAEKSPQKDKNGCYAQIRGEVCNAVLAKDALVFNITSYADPEEAQELVHTANMELK 360
DB 301 ISTAEKSPQKDKNGCYAQIRGEVCNAVLAKDALVFNITSYADPEEAQELVHTANMELK 360
QY 361 VSPVCRPAEALLCNHIPOECSPGVPTPIPCREYCLAVKELFCAKEMLWMEKTHRG 420
DB 361 AVSPICRPAEALLCNHIPOECSPGVPTPIPCREYCLAVKELFCAKEMLWMEKTHRG 420
QY 421 LYRSMHLLSVKPKCSKLPMSHMDPTACARLPHLDYKNEKLTFFPMPTSSKSPVDIPNLP 480
DB 421 LYRSMHLLSVKPKCSKLPMSHMDPTACARLPHLDYKNEKLTFFPMPTSSKSPVDIPNLP 480
QY 481 SSSSFVSPTYSMTVTIISMSFAIFVLTITLTYCCRRKOKMKKRESAAVTLTLP 540
DB 481 ASTSSPAVSAMTIVTISMSFAIFVLTITLTYCCRRKOKMKKRESAAVTLTLP 540
QY 541 SELLDRLHNPMTQRMPLINPKLISLEYPRNNIEYVRDIGEAGFVQARAPGLLP 600
DB 541 SELLDRLHNPMTQRMPLINPKLISLEYPRNNIEYVRDIGEAGFVQARAPGLLP 600
QY 601 EPTFMVAVKMLKEASADMDQADPQREAAALMAEFDNPNIYKLGCAVAGKPMCLLFEMAY 660
DB 601 EPTFMVAVKMLKEASADMDQADPQREAAALMAEFDNPNIYKLGCAVAGKPMCLLFEMAY 660
QY 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPPGPLSCAEQICIAQVAAGMAYLSERK 720
DB 661 GDLNEFLRSMSPHTVCSLSHSDLSMRAOVSSPPGPLSCAEQICIAQVAAGMAYLSERK 720
QY 721 FVHRDLATNCLVGENNVKVIADFGISRNITYSADYKANKENDAIPIRMMPESIFNYRT 780
DB 721 FVHRDLATNCLVGENNVKVIADFGISRNITYSADYKANKENDAIPIRMMPESIFNYRT 780
QY 781 TESDVAVGVVLMEIFSYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
DB 781 TESDVAVGVVLMEIFSYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
QY 841 KLPADRPSTSTHRIILERCERAEGETVSV 869
DB 841 KLPADRPSTSTHRIILERCERAEGETVSV 869

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RESULT 7
PCT-US95-08493-21
; Sequence 21, Application PC/TUS9508493
; GENERAL INFORMATION:
; APPLICANT: Wood, Clive
; APPLICANT: Caruso, Anthony
; TITLE OF INVENTION: Novel mlk Receptor Tyrosine Kinases
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LEGAL AFFAIRS
; STREET: 87 Cambridgepark Drive
; CITY: Cambridge
; STATE: MA
; COUNTRY: USA
; ZIP: 02140
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

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QY 301 ISAEWSKPKQDNKGYCAQYRGEYCNVLAADALVFLNTSYADEBEAELLVHTANMLK 360
DB 301 VSIAEMSKSQKDSQGYCAQYRGEYCNVLAADALVFLNTSYADEBEAELLVHTANMLK 360
QY 361 VVSVCRAAALLCNHIPOECSPGVVPTPIPIREXCLAVKELECAKEMLVMEKTHRG 420
DB 361 AVSPLCRPAALLCNHIPOECSPGVVPTPIPIREXCLAVKELECAKEMLVMEKTHRG 420
QY 421 LYRSEMHLLSVKCSKLPMSHMDPTACARLPHLDYNNENKLTFFPMPTSSKSVIPNLP 480
DB 421 LYRSGMHLPLVPECKSLPMSHMDPTACTRPLT-----AFPSITSSRPSADIPLP- 471
QY 481 SSSSSFSVSPYMTVITISMSFAIFVLLITLTYCCRRKQKNNKRESAAVTLTTL 540
DB 472 ASTSSFAVSPAYMTVITISMSFAIFVLLITLTYCCRRKQKNNKRESAAVTLTTL 531
QY 541 SELLDRLHPNPMQORPMLLNPKLLSLEYPRNNIEVYRDIGEGAFGRVFOARAPGLLP 600
DB 532 SELLDRLHPNPMQORPMLLNPKLLSLEYPRNNIEVYRDIGEGAFGRVFOARAPGLLP 591
QY 601 EPTTMAVAKMLKEASADMOADFOREALMAEFDNPIVTKLGCAYAGKPMCLFEYMA 660
DB 592 EPTTMAVAKMLKEASADMOADFOREALMAEFDNPIVTKLGCAYAGKPMCLFEYMA 651
QY 661 GDLNEPLKSMSPHTVCSLSHDSLMRAQVSSPGPPPLSCAEOLCIAQVAGNAVYLSERK 720
DB 652 GDLNEPLKSMSPHTVCSLSHDSLSSTRAYSSPGPPPLSCAEOLCIAQVAGNAVYLSERK 711
QY 721 FVHRDLATRNCLVGENNVVYKIADEGLSRNITSADYKANENDAIPTMMPPESTFNRYT 780
DB 712 FVHRDLATRNCLVGENNVVYKIADEGLSRNITSADYKANENDAIPTMMPPESTFNRYT 771
QY 781 TESDVNAVYVLMELFISYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
DB 772 TESDVNAVYVLMELFISYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 831
QY 841 KLPADRPSTSIHRIILERMCEERAGTVSV 869
DB 832 KLPADRPSTSIHRIILERMCEERAGTVSV 860

```

RESULT 9
CT-US95-08493-13
Sequence 13, Application PC/TUS9508493
GENERAL INFORMATION:
APPLICANT: Wood, Clive
APPLICANT: Caruso, Anthony
TITLE OF INVENTION: Novel mlk Receptor Tyrosine Kinases
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESS: LEGAL AFFAIRS
STREET: 87 Cambridge Park Drive
CITY: Cambridge
STATE: MA
COUNTRY: USA
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/08493
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G152344
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851

```

; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 946 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-08493-13

Query Match      63.4%; Score 2897; DB 5; Length 946;
Best Local Similarity 59.9%; Pred. No. 3.6e-218;
Matches 571; Conservative 113; Mismatches 159; Indels 100; Gaps 11;

QY 5 VNPDLVHLLLVASSTGEK--LRAPIYITPLEYDALVEEATFCAVESYPOPEISWT 62
DB 6 VNPDLVHLLLVASSTGEK--LRAPIYITPLEYDALVEEATFCAVESYPOPEISWT 64
QY 63 RNKILIKFDTRYSIRENGOLLTITLSEDDDDGICTTANNNGAGVAESGALQVKKPK 122
DB 65 RNKILIKFDTRYSIRENGOLLTITLSEDDDDGICTTANNNGAGVAESGALQVKKPK 124
QY 123 ITRPPIVAKIIEGLKAVLPCTYGNPKPSYVSWIKGDSPLR-ENSRLAVLESGSLRIHNO 181
DB 125 ITRPPIVAKIIEGLKAVLPCTYGNPKPSYVSWIKGDSPLR-ENSRLAVLESGSLRIHNO 184
QY 182 KEDAGQRCYAKKSLGTAAYSKVYKLEFEVFAIRLLAPESHNVTFGSVTLTCTATGIPV 241
DB 185 KEDAGQRCYAKKSLGTAAYSKVYKLEFEVFAIRLLAPESHNVTFGSVTLTCTATGIPV 244
QY 242 TITWIENGNAVSSGSIQESYKDRVIDSRLOLFTKGLGYLCIATNKHGEKFTAKAAT 301
DB 245 TITWIENGNAVSSGSIQESYKDRVIDSRLOLFTKGLGYLCIATNKHGEKFTAKAAT 304
QY 302 STAEWSKPKQDNKGYCAQYRGEYCNVLAADALVFLNTSYADEBEAELLVHTANMLK 361
DB 305 STAEWSKPKQDNKGYCAQYRGEYCNVLAADALVFLNTSYADEBEAELLVHTANMLK 363
QY 361 VVSVCRAAALLCNHIPOECSP-GVAPPTPIPIREXCLAVKELECAKEMLVMEKTHRG 420
DB 364 VVSVCRAAALLCNHIPOECSP-GVAPPTPIPIREXCLAVKELECAKEMLVMEKTHRG 423
QY 421 LYRSEMHLLSVKCSKLPMSHMDPTACARLPHLDYNNENKLTFFPMPTSSKSVIPNLP 480
DB 424 LYRSEMHLLSVKCSKLPMSHMDPTACARLPHLDYNNENKLTFFPMPTSSKSVIPNLP 480
QY 481 SSSSSFSVSPYMTVITISMSFAIFVLLITLTYCCRRKQKNNKRESAAVTLTTL 540
DB 472 SSSSSFSVSPYMTVITISMSFAIFVLLITLTYCCRRKQKNNKRESAAVTLTTL 531
QY 541 SELLDRLHPNPMQORPMLLNPKLLSLEYPRNNIEVYRDIGEGAFGRVFOARAPGLLP 600
DB 532 SELLDRLHPNPMQORPMLLNPKLLSLEYPRNNIEVYRDIGEGAFGRVFOARAPGLLP 591
QY 601 EPTTMAVAKMLKEASADMOADFOREALMAEFDNPIVTKLGCAYAGKPMCLFEYMA 660
DB 592 EPTTMAVAKMLKEASADMOADFOREALMAEFDNPIVTKLGCAYAGKPMCLFEYMA 651
QY 661 GDLNEPLKSMSPHTVCSLSHDSLMRAQVSSPGPPPLSCAEOLCIAQVAGNAVYLSERK 720
DB 652 GDLNEPLKSMSPHTVCSLSHDSLSSTRAYSSPGPPPLSCAEOLCIAQVAGNAVYLSERK 711
QY 721 FVHRDLATRNCLVGENNVVYKIADEGLSRNITSADYKANENDAIPTMMPPESTFNRYT 780
DB 712 FVHRDLATRNCLVGENNVVYKIADEGLSRNITSADYKANENDAIPTMMPPESTFNRYT 771
QY 781 TESDVNAVYVLMELFISYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 840
DB 772 TESDVNAVYVLMELFISYGLOPYGMAHEEVIYVRDGNILSCPENCPVELYNMLRLCWS 831
QY 841 KLPADRPSTSIHRIILERMCEERAGTVSV 869
DB 832 KLPADRPSTSIHRIILERMCEERAGTVSV 860

```

DB 894 DGNILSCBNCPELYNMLRLCWSMPSDRPTFASIHRLTERMHQMAALPV 946

RESULT 10

PCT-US95-08493-2

Sequence 2, Application PC/TUS9508493
GENERAL INFORMATION:
APPLICANT: Wood, Clive
APPLICANT: Caruso, Anthony
TITLE OF INVENTION: Novel mlk Receptor Tyrosine Kinases
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESS: LEGAL AFFAIRS
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: USA
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/08493
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G15234A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 530 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-08493-2

Query Match 56.9%; Score 2597.5; DB 5; Length 530;
Best Local Similarity 90.4%; Pred. No. 4.3e-195;
Matches 487; Conservative 20; Mismatches 23; Indels 9; Gaps 2;

QY 331 KDAIVLNTSYADPEAQLVHTANNEIKVSPVCRPAEALLCHITQESPGVVPPT 390
DB 1 KDAIVFNTSYRDEDAQELLHTANNEIKAVSPICRPAEALLCHITQESPGVVPPT 60
QY 391 IPICREYCLAVKELFCAKEMLVMEETKRGILYSEMHLLSVPKCSKLPSMEMDPTACARL 450
61 MPICREYCLAVKELFCAKEMLVMEETKRGILYSEMHLLSVPKCSKLPSMEMDPTACARL 120
QY 451 PHLDYKNEKLTPEPTSSKPSVDIPNLDSSSSSSVSPTTYMTYIISNSFAIFVLL 510
DB 121 PYL-----APPSITSSRPADIDNLP-ASTSSPAVSPTMTYIISVSFFALFALL 171
QY 511 TITTLVCCRRKQMKKKRESAAVTLTLPSELIDBLHPNPMYQRMPLINLKLSLEY 570
DB 172 TITTLVCCRRKQMKKKRESAAVTLTLPSELIDBLHPNPMYQRMPLINLKLSLEY 231
QY 571 PRNNIEYVDIGEGAFGEVQARAPGLIPPEPTMAVKMLKEBASADMOADFORAALM 630
DB 232 PRNNIEYVDIGEGAFGEVQARAPGLIPPEPTMAVKMLKEBASADMOADFORAALM 291
QY 631 AEPDNPNTVLLGVCAVGRKPMCLIFETMAAGDLINEFRLSPHTVCSLSHSDLSMRAOVS 690
DB 292 AEPDNPNTVLLGVCAVGRKPMCLIFETMAAGDLINEFRLSPHTVCSLSHSDLSMRAOVS 351
QY 691 SPGPPLSCAEOLCIARQVAAGMAYLSERKFVHRDLATRNCLVGENNVVRIADFGLSRNT 750

DB 352 SPGPPLSCAEOLCIARQVAAGMAYLSERKFVHRDLATRNCLVGENNVVRIADFGLSRNT 411
QY 751 YSAIYYANENDALPIRMMPESIFYNRYTTESDVAWGVMEIFSYGLQPPYGAHAE 810
DB 412 YSADYRADGDNDALPIRMMPESIFYNRYTTESDVAWGVMEIFSYGLQPPYGAHAE 471
QY 811 VIVYVRDGNILSCBNCPELYNMLRLCWSKLPADRPSTSIHRLTERMHQMAALPV 869
DB 472 VIVYVRDGNILSCBNCPELYNMLRLCWSKLPADRPSTSIHRLTERMHQMAALPV 530

RESULT 11

PCT-US95-08493-15

Sequence 15, Application PC/TUS9508493
GENERAL INFORMATION:
APPLICANT: Wood, Clive
APPLICANT: Caruso, Anthony
TITLE OF INVENTION: Novel mlk Receptor Tyrosine Kinases
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESS: LEGAL AFFAIRS
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: USA
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/08493
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G15234A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 478 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-08493-15

Query Match 50.6%; Score 2312; DB 5; Length 478;
Best Local Similarity 91.4%; Pred. No. 8e-173;
Matches 437; Conservative 19; Mismatches 22; Indels 0; Gaps 0;

QY 1 MRELVINPIVHILITLVAFGTEKLPKAPVITPPTVDAIVVEVATPMCAVSPPEIS 60
DB 1 MRELVINPIVHILITLVAFGTEKLPKAPVITPPTVDAIVVEVATPMCAVSPPEIS 60
QY 61 WTRNKLLIKLFDPRYSIRRENGQLTLTIVSDSDGTYCCTANNVGAVGSCGALQYKK 120
DB 61 WTRNKLLIKLFDPRYSIRRENGQLTLTIVSDSDGTYCCTANNVGAVGSCGALQYKK 120
QY 121 PRTTRPINKITIEGKAVLPCTTMGNPKPSVSWIKGDSPLRENSRIAVLESGLRIHV 180
DB 121 PRTTRPINKITIEGKAVLPCTTMGNPKPSVSWIKGDSPLRENSRIAVLESGLRIHV 180
QY 181 OKEDAGQYRCVANSIGTAVSKYVLEFVFAILAPESHNTFSGVTLHOTATGIVP 240
DB 181 OKEDAGQYRCVANSIGTAVSKYVLEFVFAILAPESHNTFSGVTLHOTATGIVP 240
QY 241 PTLTWIENGAAVSSGSIQESVQDVDRVDSRLQLFTFRPGLYTCTATNKHGKFTARAAT 300
DB 241 PTLTWIENGAAVSSGSIQESVQDVDRVDSRLQLFTFRPGLYTCTATNKHGKFTARAAT 300

QY 301 ISIAEWSKPOKDNKGYCAQYRGEVCNANVLAKDALVFLNTSYADEPEAOELLVHTAMNELK 360
Db 301 VSIANEWSKQKDSGCGYCAQYRGEVCNANVLAKDALVFLNTSYADEPEAOELLVHTAMNELK 360
QY 361 VVSFVCPRAEALICNHIPOECSPGVVPTPIPICREYCLAVKELFCAKEMLVMEKTHRG 420
Db 361 AVSFLCPRAEALICNHIPOECSPGVVPTPIPICREYCLAVKELFCAKEMLVMEKTHRG 420
QY 421 LYREEMHLLSVKCSKLPMSHMDPTACARLPHLDYKNENLKTFFPMSSKPSVDIPNL 478
Db 421 LYRGMHLLVPECSKLPMSHMDPTACTRLPYLDYKNENLKTFFPMSSKPSVDIPNL 478

RESULT 12

US-08-701-191A-30
Sequence 30, Application US/08701191A
Patent No. 5942428

GENERAL INFORMATION:

APPLICANT: Moosa Mohammadi, Joseph Schlessinger,
and Stevan R. Hubbard
TITLE OF INVENTION: CRYSTALS OF THE TYROSINE KINASE DOMAIN
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: U.S.A.

ZIP: 90071-2066

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FASTSEQ for Windows 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/701,191A

FILING DATE: August 21, 1996

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard J.

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 227/088

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 30:

SEQUENCE CHARACTERISTICS:

LENGTH: 304 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-701-191A-30

Query Match 34.5%; Score 1577; DB 2; Length 304;

Best Local Similarity 97.0%; Pred. No. 1,3e-115;

Matches 295; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 562 NPKLLSLEYPRNNIEYVDIGEGAFGRVQARAPGLPEPTMVAVKMLKEEASADMDA 621
Db 1 NPKLLSLEYPRNNIEYVDIGEGAFGRVQARAPGLPEPTMVAVKMLKEEASADMDA 60
QY 622 DFOREAAALAEFDNPNIVKLLGVCAVGKPMCLLFEXMAYGDLNEFLRMSPTVCSLSHS 681
Db 61 DFOREAAALAEFDNPNIVKLLGVCAVGKPMCLLFEXMAYGDLNEFLRMSPTVCSLSHS 120

QY 682 DLSRAVSSBPPLSCAEOLCIAROVAAGMAYLSERKTVHRDLATRNCLVGENMYVKI 741
Db 121 DLSRAVSSBPPLSCAEOLCIAROVAAGMAYLSERKTVHRDLATRNCLVGENMYVKI 180
QY 742 ADFGLSRNITSADYKKNENDADPIRMPPESTIFYNRYTESDVAAGVYLMETFSYGLQ 801
Db 181 ADFGLSRNITSADYKKNENDADPIRMPPESTIFYNRYTESDVAAGVYLMETFSYGLQ 240
QY 802 PYGMAHEEVIYYVRDGNILSCENCPVELYNMRLCWSKLPADRPSTSIHRLERMC 861
Db 241 PYGMAHEEVIYYVRDGNILSCENCPVELYNMRLCWSKLPADRPSTSIHRLERMC 300
QY 862 RAEG 865
Db 301 RAEG 304

RESULT 13

US-08-469-537A-105

Sequence 105, Application US/08469537A

Patent No. 5843749

GENERAL INFORMATION:

APPLICANT: Maisongier, et al.

TITLE OF INVENTION: EHK AND FOR TYROSINE

NUMBER OF SEQUENCES: 107

CORRESPONDENCE ADDRESS:

ADDRESSEE: Regeneron Pharmaceuticals, Inc.

STREET: 777 Old Saw Mill River Road

CITY: Tarrytown

STATE: NY

COUNTRY: U.S.A.

ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/469,537A

FILING DATE: 06-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: USSN 08/406,247

FILING DATE: 17-MAR-1995

APPLICATION NUMBER: USSN 08/144,992

FILING DATE: 28-OCT-1993

APPLICATION NUMBER: USSN 07/736,559

FILING DATE: 26-JUL-1991

ATTORNEY/AGENT INFORMATION:

NAME: Kempler, Ph.D., Gall M

REGISTRATION NUMBER: 32,143

REFERENCE/DOCKET NUMBER: REG 070C

TELECOMMUNICATION INFORMATION:

TELEPHONE: 914-345-7400

TELEFAX: 914-345-7721

TELEX:

INFORMATION FOR SEQ ID NO: 105:

SEQUENCE CHARACTERISTICS:

LENGTH: 937 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

FRAGMENT TYPE: Internal

NAME/KEY: Human ROR1

LOCATION: 1...937

OTHER INFORMATION:

US-08-469-537A-105

Query Match 19.7%; Score 899; DB 2; Length 937;

```

MEDUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,537A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/406,247
FILING DATE: 17-MAR-1995
APPLICATION NUMBER: USSN 08/144,992
FILING DATE: 28-OCT-1993
APPLICATION NUMBER: USSN 07/736,559
FILING DATE: 26-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Kempler, Ph.D., Gail M
REGISTRATION NUMBER: 32,143
REFERENCE/DOCKET NUMBER: REG 070C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 914-345-7400
TELEFAX: 914-345-7721
TELEX:
INFORMATION FOR SEQ ID NO: 107:
SEQUENCE CHARACTERISTICS:
LENGTH: 943 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
FEATURE:
NAME/KEY: Human ROR2
LOCATION: 1...943
OTHER INFORMATION:
US-08-469-537A-107

Query Match 19.2%; Score 876; DB 2; Length 943;
Best Local Similarity 28.6%; Pred. No. 4,7e-60;
Matches 236; Conservative 119; Mismatches 249; Indels 222; Gaps 26

126 PPINVKILEGAKVLPTTGMNPKPSVWIKGDSPLRENSRAVL---ESGS-LRIHWQ 181
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
67 PNNNTIYOGGOTAILHCKVAGNPENVMKLNDAVVGEPRIILIRKTEYSGRLIIDID 126
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
182 KEDAGQYRCVAKNSLGTAYSKVVKLEFEVFARILRAPESHNVTFGSFVTLHCTATGIVP 241
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
127 TTIDGIYQCVATNGMKT-----ITAGV----- 149
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
242 TITWIENGNAVSSGSIQESVKDRVIDSRLOLFTIRPGLYTCLATNKHGKFTAKAAATI 301
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
150 -----LFV-----BLGPTH 158
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
302 SLAEWSKPKQDNKGCAQYRGEVNAVALAKALVFLNTSYADPEEAQ---ELLVTTANNE 358
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
159 SPNNHFQDDYHEDGQCPYRGIACTIGN-----RTIYDSLOMOGEIENKRIITAATFM 212
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
359 LKV---VSPVCRPAEALICNHIPOEC-SPGVVPTPIPICREYCLAVELCAKMLVME 414
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
213 IGTSHLSDQSQFAIPSCFHFVPLCDARSPAPKPRELCRECEVLSDLCROEYTTA- 271
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
415 EKHRLGLYRSE---MHLLSVKRCSTLPSMHDPTA--CARLP-----HLQDN----- 456
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
272 -----RSPNPLIMRLQPLRCCEALP--MPESPDAWNCIRIGIIPARLGRYHOCTYNGSM 322
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
457 -----KENVLKTFR-----PMSSKPSVYIPNL----- 478
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
323 DYKGTASTTKSGHQCPALMDPHSHHLSSTDFPELGGGHACRNPBGOMEGPWCFTQNK 382
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
479 -----PSSSSSSFSVSPYTSMTVIISIMSSPAI-FVLLITITLYIC-CRRKQMK 527
      | : : : | : : | : : | : : | : : | : : | : : | : : | : : | : :
383 NVRMELCDVPSCSPRDS-----KGIILYILVPSIAIPLVIACTLFFVLCMR-----NK 431

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QY 528 KRESAAV---TLTLESELLDLRHPNMYORPMLLPKLLST-EYRNNIEVNDIG 582
 Db 432 OKASASIPQORQWASQDM-----EMPLINQKQAKLKESLSAVRMEELG 480
 QY 583 EGAGRGFOQARAPGLLEYEPPTMAVKMLKEBASADQADQFORBAAALMAEFDNPNYKL 642
 Db 481 EDRGKAYKKGHLFEPGAEQTOAVALIKLQKAGEPLEFRERHBAMLRARLOHNVYCL 540
 QY 643 GVCAGKPMCLLFEMAYVGDLENEFLRMSPHVCSLSHSDLSMAQVSSQPPPLSCAQ 702
 Db 541 GVTYKQDPLSMITSYCHGDLHEFLVNRSPHDVGSSTDDRTYKSALEPP-----DF 592
 QY 703 LCLAROVAAGMAYLSERKEVHRDLATRNCLVGENMYKADFGLSRNIYADYKANEND 762
 Db 593 VHLVADIAQMEYLSHHVYHKLDAFRNLVYDKLVKISDGLFREYVADYKLLGNS 652
 QY 763 AIFIRMPPEISFYRNTTESDVAVCVYVMEIFSYGLOPYGMAHEVITYYRDGNS 822
 Db 653 LFIIRMAPPAIKYGFSDISDIMSIVGVLMVEVSYGLOPYCGYNODVYEMIRNQLP 712
 QY 823 CPENCVELYNMLRCLMADRPSPFTSIHRIERMCERAGTYS 868
 Db 713 CPDCCPAWYALMIECWNEPSPRRPRKDIHSRL-----RANGLS 753

RESULT 15 US-08-339-578-2

Sequence 2, Application US/08339578
 Patent No. 5622862
 GENERAL INFORMATION:
 APPLICANT: Squinto, et al.
 TITLE OF INVENTION: ASSAY SYSTEMS FOR NEUROTROPHIN ACTIVITY
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Regeneron Pharmaceuticals, Inc.
 STREET: 777 Old Saw Mill River Road
 CITY: Tarrytown
 STATE: New York
 COUNTRY: U.S.A.
 ZIP: 10591-6707
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/339, 578
 FILING DATE: 14-NOV-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/690,199
 FILING DATE: 23-APR-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Kemper, Gail M.
 REGISTRATION NUMBER: 32,143
 REFERENCE/DOCKET NUMBER: 6526-061A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (914) 345-7400
 TELEFAX: (914) 345-7721
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 821 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-339-578-2

Query Match 18.98; Score 862; DB 1; Length 821;
 Best Local Similarity 28.58; Pred. No. 4.8e-59;
 Matches 259; Conservative 121; Mismatches 254; Indels 276; Gaps 34;
 34 LETVDALVEEATFMCAYESYPOPEISMTNKLILKLFDRYSIRE-----NGQ 82

Db 96 LTIYDSGLKEFA-YKAFLEKSNLNRHINFRNKL-----TSLSRHRHRLDLSLITLGN 148
 QY 83 -----LTLTIVEDSD--GIYCCTANN--VGAVSCGALQYKMKPKITRP 126
 Db 149 PFTCSIDIMWTKLTQETKSSPDQDLYCLNESSKNMPLANLOIPNCL-----PSARA 202
 QY 127 PINKIIIEGLKAVLPCTTMGNPKPSVSMIKD---SPLRENSRIAVLESGSLRIHNOKE 183
 Db 203 APNLVEEGKSVTLSCVGGDPLPTLYMDQNLVSKMNEISH-----TQSLRTNITSSD 258
 QY 184 DAG-QYRCVAKNSIGTAYSKV-YKLEEFVARILRAESHN---VFEGSVTLHCTATGI 238
 Db 259 DSGQISCVAMENLVGEDQDSVNLVHFAPIITTELESPTSQHNCIPF-----TYRGN 310
 QY 239 PVPITWIENGNAVSSGSIQIESYKDRVIDSR-----LQLETPR-----GLYCIATNKH 288
 Db 311 PKPALQFYNG-AILNRSKICYIKIHNTNTEHGLQL--DNFTKNNQDYLTMANKY 367
 QY 289 GEKFTAKKAATTSIAEWSKPKQDNNGYCAQYRGECYCNANLADALVFLNTSYADPEAQ 348
 Db 368 G-----KDERQISAHFMG----- 380
 QY 349 ELLVHTAMNELKYVSPYCRPAEALLOHNIPOCSGCVPTPIPICREYCLAVKELFCAR 408
 Db 381 -----RGVD-----YETNP-----NYPEVLYE----- 398
 QY 409 EWLMEKTHRGRLRSEMHLISVCKSLPSMHMDPTACARLPHLDYNNENLTFPPMIS 468
 Db 399 DWT-----PTDIGDT-----MNSN----- 414
 QY 469 SKPSVDIPNLPSSSSSFSVSPTYSMTVITISMSAIFVLLTTLTYCCRRKQKMK 528
 Db 415 EIPSTDVAD-QSNRHLISV-YAVVVIASVVG---FCLVMLLLKLARSKFGMKG 465
 QY 529 RESAAVTLTLPSELLDLRHPNMYO-----RMDLLNPKL 565
 Db 466 PASV-----ISNDDASAPLHIHNSGNTSPSSSGGDAVITIGTKIPVLENPOY 515
 QY 566 LSL-----EYPRNNIEYVRDIEGAGFAGRYFOARADGLLEPEPTMAVAMKLE 613
 Db 516 FGITNSQLKPDTEYOHIRKHNITVLKRELEGAFGVFLAECYNLCPEQKILVAVTKL 574
 QY 614 EASADMQADFOREALMAEFDPNIVKILGCAVAKPMCLLEFYAYAGLNEFLSMSPH 673
 Db 575 DASDNARQDFHREAEELTNLOHEHIVKRYGCVYEGDPLIMVEYKKGDLNKFLEHAGPD 634
 QY 674 TYCSLSHSDLSMRAQVSSPGRP--LSCAEOLCLAROVAAGMAYLSERKEVHRDLATRNC 731
 Db 635 AV-----LMAEGNPTELTQSOMLHIAQIAGVYLASQHFVHRDLATRNC 681
 QY 732 LVGENMYKIADFGLSRNIYADYKANENDALPIRMMPPESIFYNRTTSDVAAGVY 791
 Db 682 LVGENLTKIGDFGMSRVIYSTDYRVGGHMLPIRMMPPESIMIRKFTTSDVMSLVV 741
 QY 792 LMEIFSYGLOPYGMAHEVITYYVNDGNIILSCPENCPELYNMLRCLMADRPSPFTS 851
 Db 742 LMEIFYKQPMYOLISNNEVEICTQGRVLRPRPCQPEYVEMLGCQGRBPHRKNIKS 801
 QY 852 IIRLIERCE 861
 Db 802 IHTLQNLAK 811

Search completed: June 18, 2003, 10:30:03
 Job time : 22 secs

